

# ACCESS ROSIN<sup>®</sup>

INNOVATIVE SOLVENTLESS SOLUTION



## 33 AIR XL



Pneumatic Rosin Press

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# SPECIFICATION

1. Rosin Press Details
  - 1.1 Press Overview
  - 1.2 Technical Specifications
  - 1.3 Heat Plate & Cartridge Layout
  - 1.4 What's Included



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# ROSIN PRESS - AIR

## Technical Features

### FRAME

- Made in the USA
- Material: High-strength steel frame
- Bolted Framework: High tensile strength specs
- Finish: Semi-gloss black powder coat (optional)

### AUTOMATION

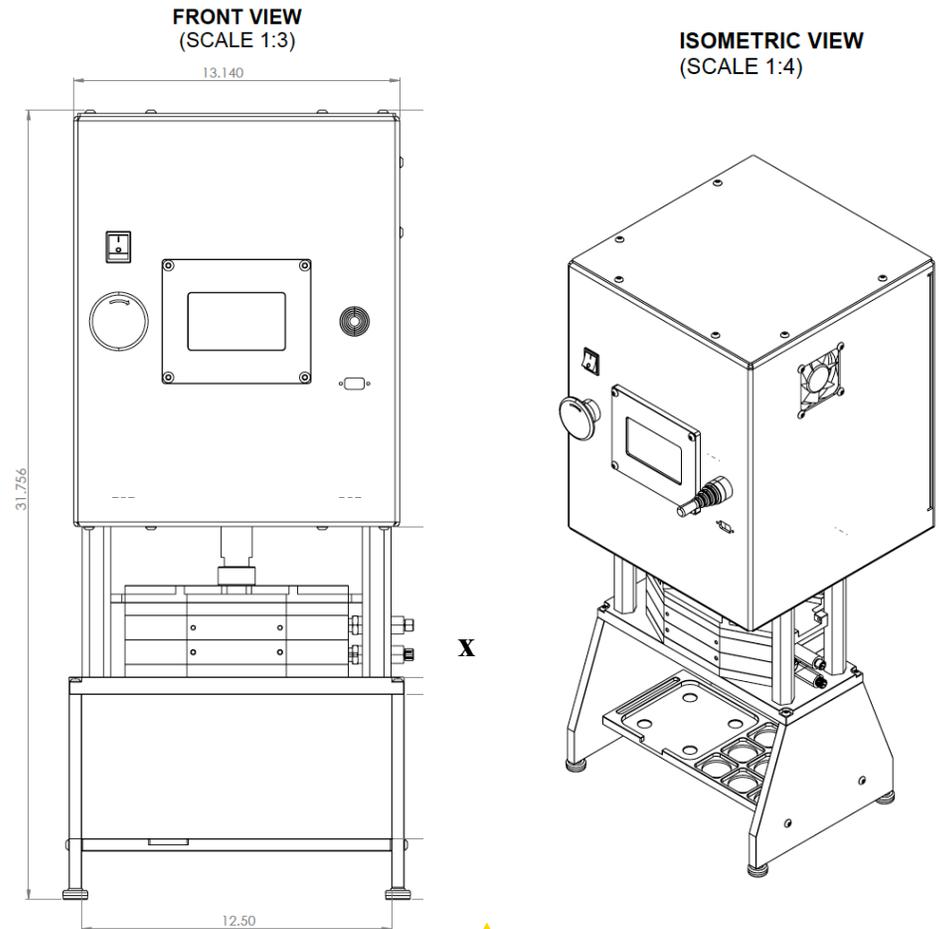
- Software: Access Rosin FCT control software
- Recipe Storage: 20 programmable slots
- Pressure Control: 0–800 psi range with  $\pm 1$  psi accuracy (digital pressure regulator)
- Temperature Monitoring: Digital temperature transmitter
- Controls: High-resolution touchscreen interface
- Sensors: Top-plate guide sensors for precise platen alignment
- Power Requirements: 110–120 VAC, 60 Hz; 9 A running; dedicated 20 A circuit
- Switches:
  - Main power switch
  - Emergency stop (push-to-activate; twist-to-release)
  - Toggle switch for manual platen movement
- Electronics Warranty: 1-year limited warranty

### OPERATIONS

- Cylinder: Double-acting pneumatic
- Capacity: 8 tons at 120 psi
- Capacity: 20 tons at 120 psi for XL
- Dimensions: 2" stroke, 6" bore (10" for XL); four-stage cascade design
- Air Supply (required):
  - Recommended Compressor: California Air Tools CAT2020 – Tank Capacity: 20 gallons
  - Operating Pressure: 100 psi

Power: 110–120 VAC, 60 Hz; 15 A running; dedicated 20 A circuit

## Reference Image

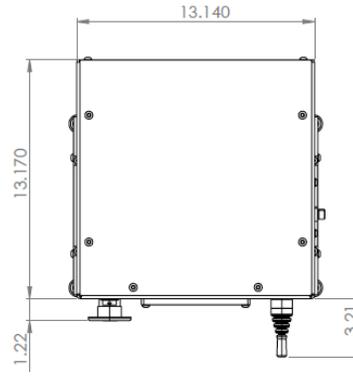


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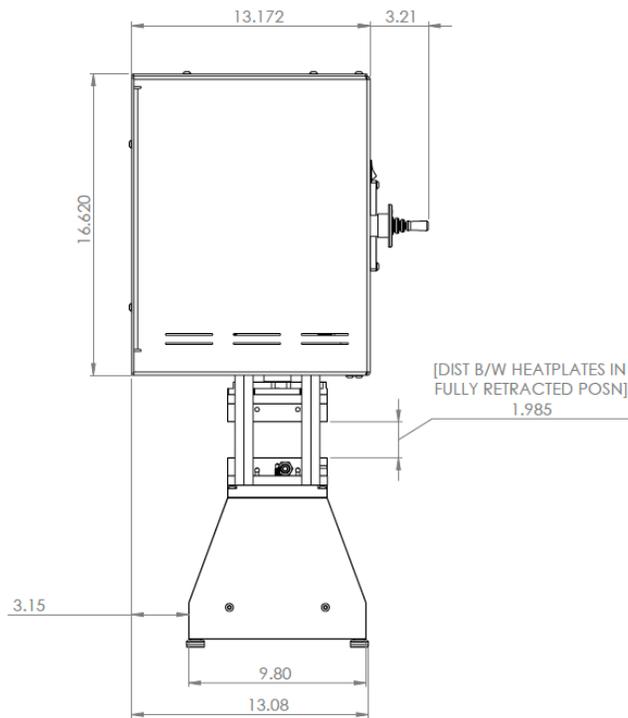
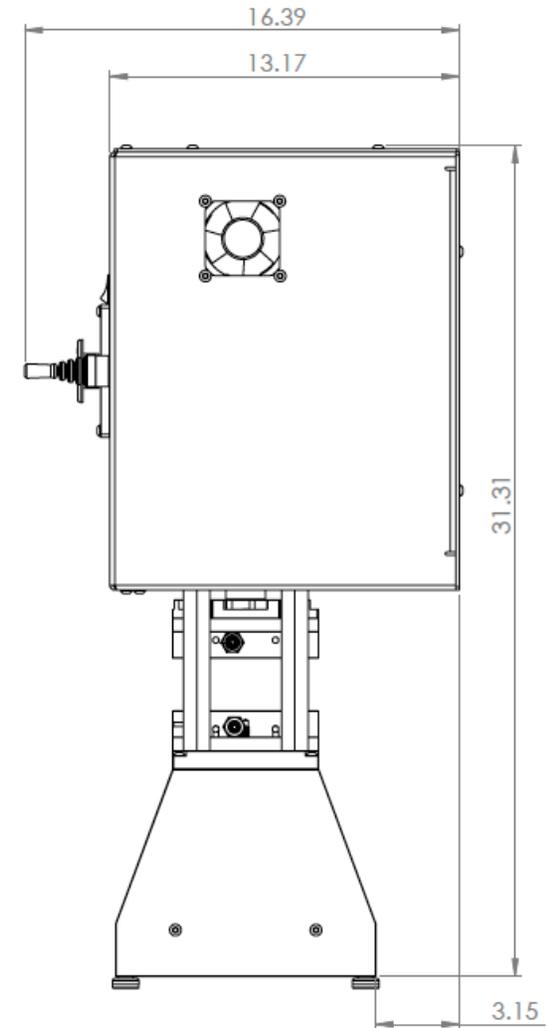
# SPECIFICATION SHEET



**TOP VIEW**  
(SCALE 1:5)

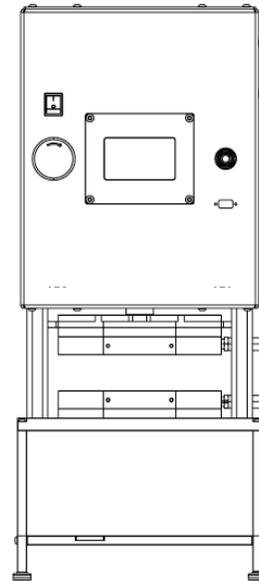


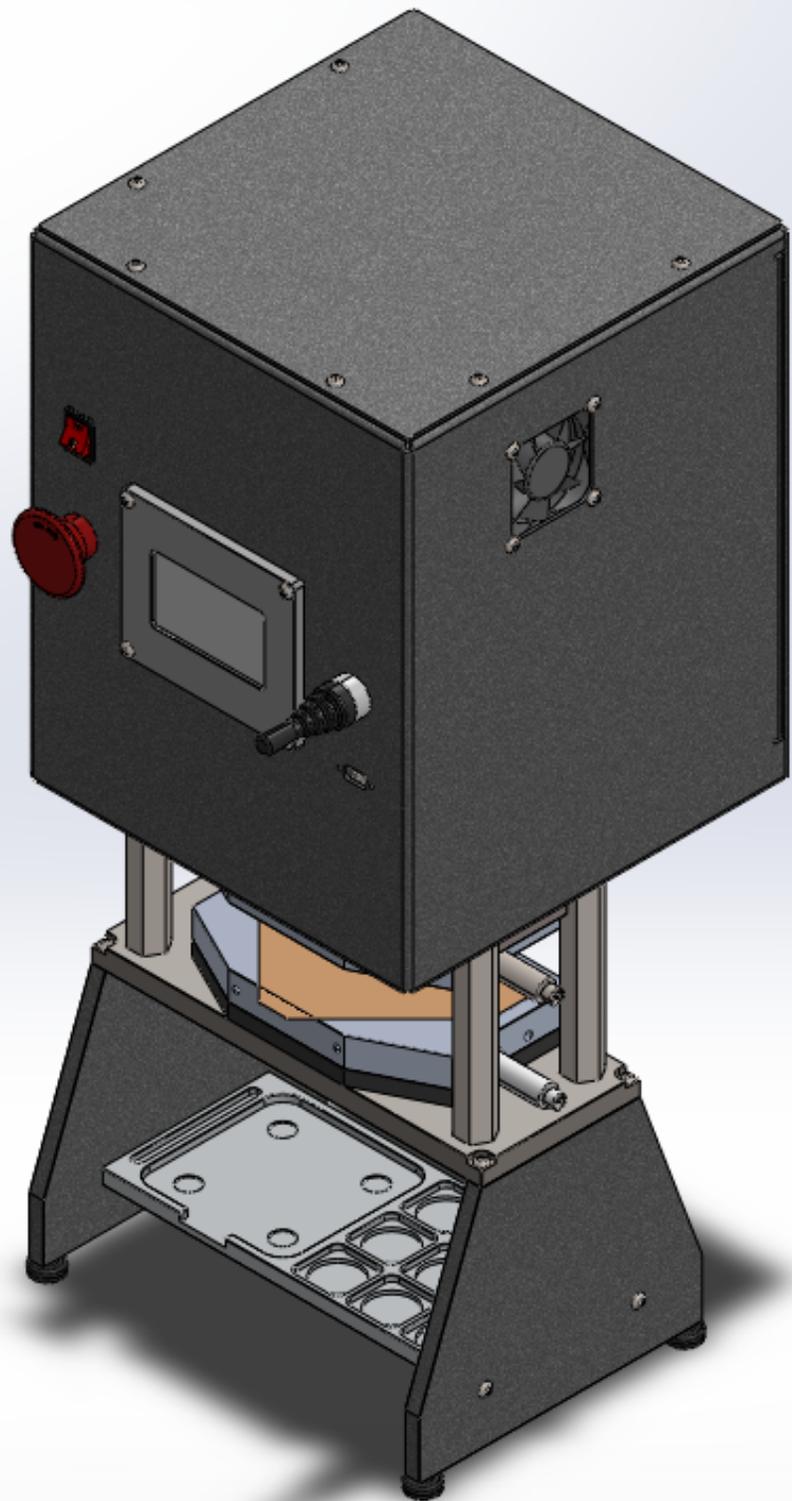
**RIGHT VIEW**  
(SCALE 1:5)

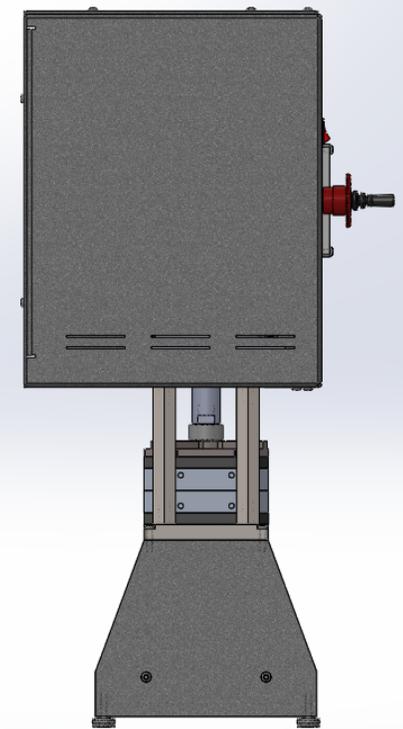
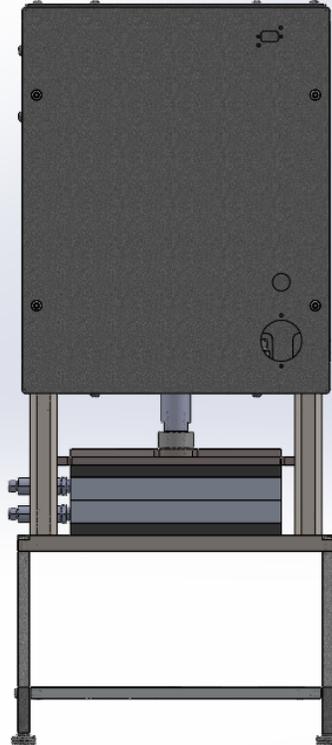
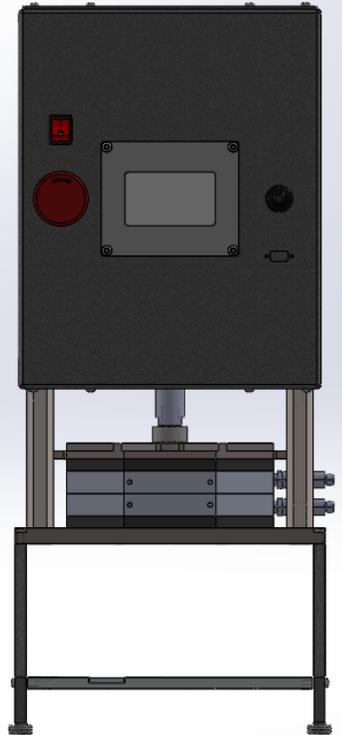
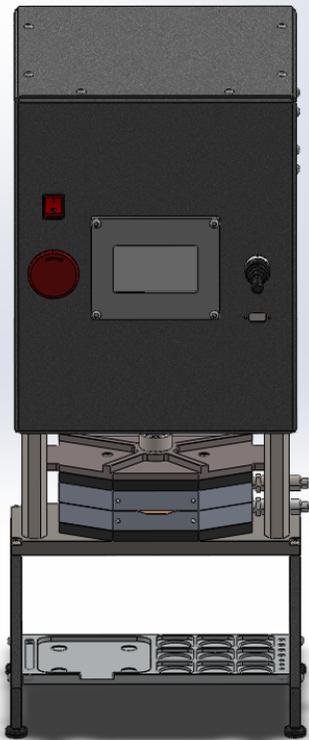
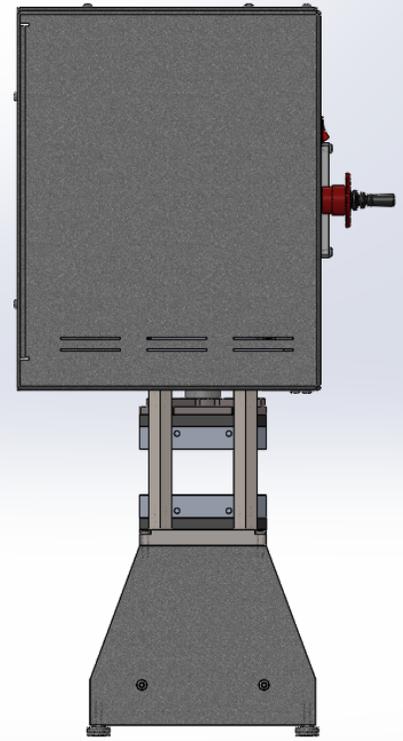
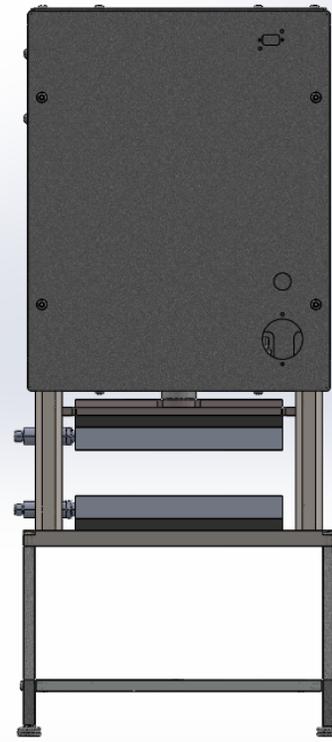
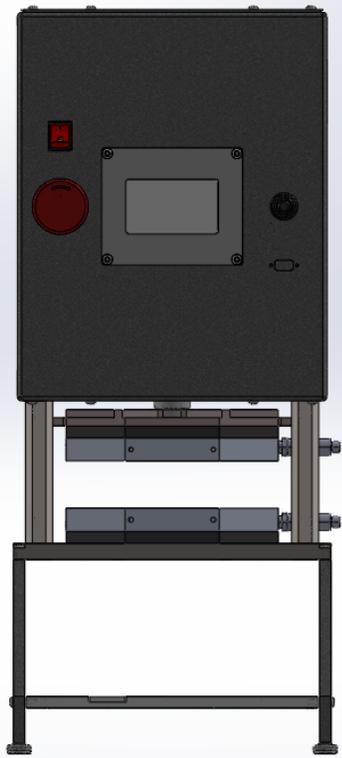
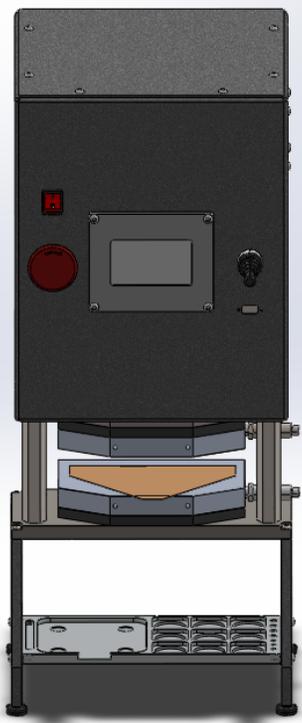


**LEFT VIEW**  
(SCALE 1:5)

**FRONT VIEW (SCALE 1:5)**  
[FULLY RETRACTED POSITION]

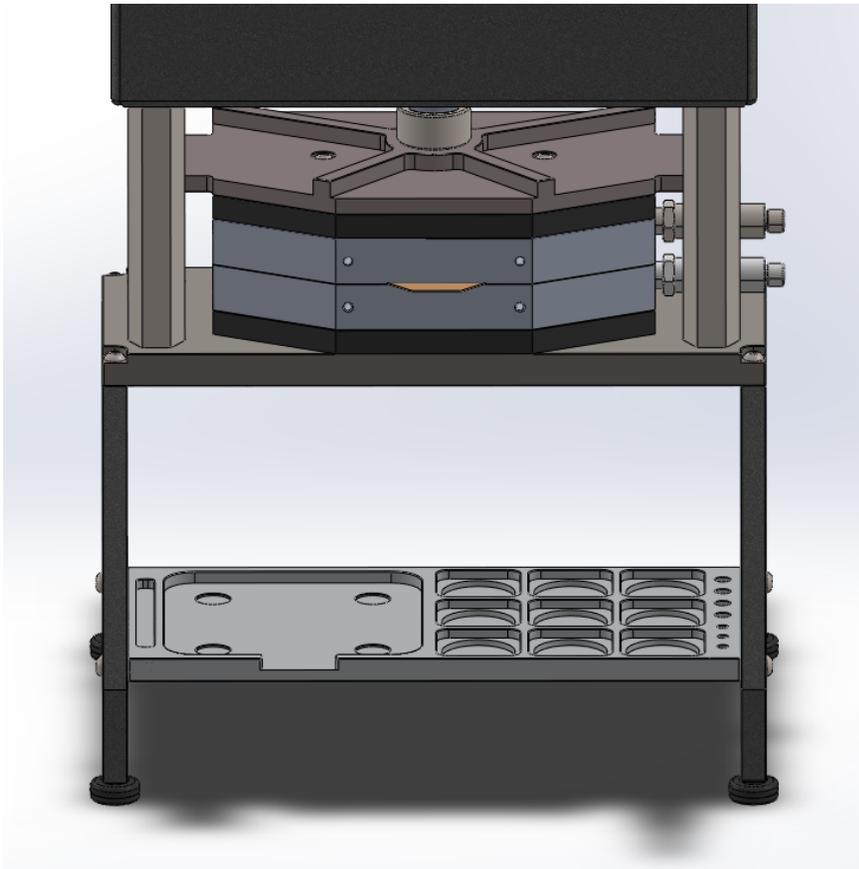




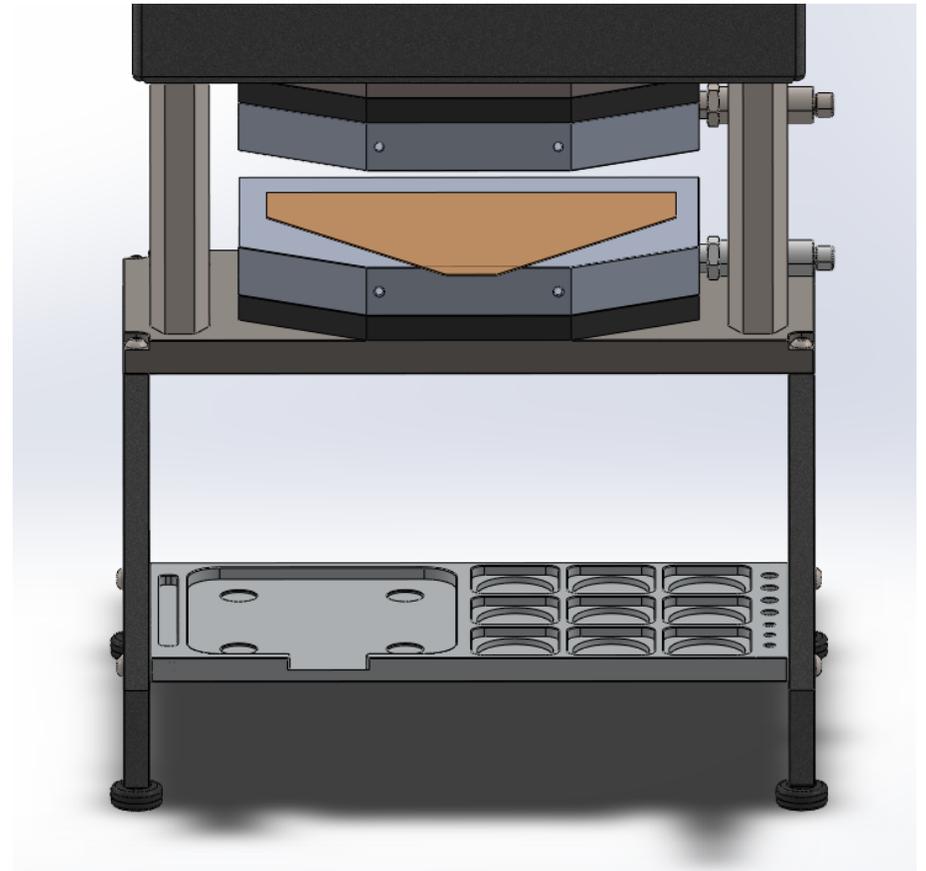


# Heat Plate Position

## CLOSED POSITION



## OPEN POSITION

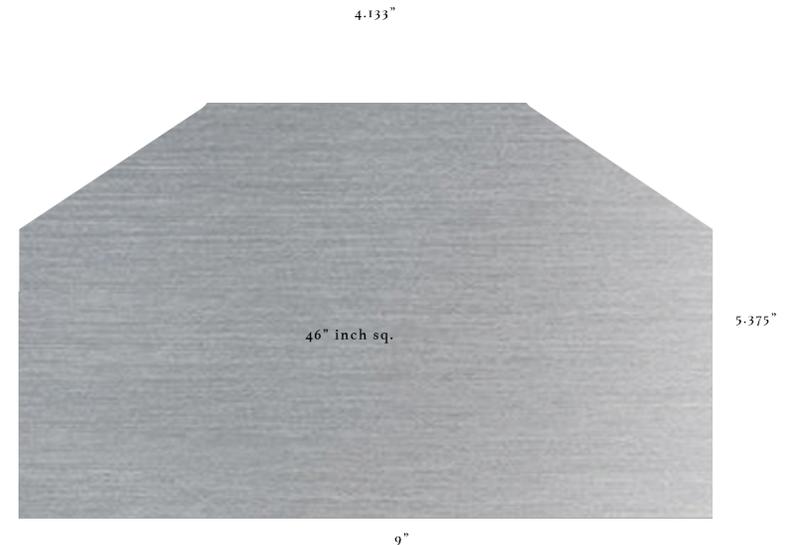


# Heat Plate

## Technical Features

## Trapezoid XL

- **Trapezoid Shape**
- **Size:** 5.375" x 9" (4" Bottom / 9" Top / )
  - **Features:**
    - Max Surface Area
    - Slip Prevention
  - **Surface Area:** 46" sq.
    - **Top Plate:** 5.375" x 9"
      - Digital Temperature sensor
      - 4x Heating elements 80w
      - Thermal conductive grease
      - 1/4 - 20 Heat element set screws
    - **Bottom Plate:** 5.375" x 9"
      - Digital Temperature sensor
      - 4x Heating elements 80w
      - Thermal conductive grease
      - 1/4 - 20 Heat element set screws
- **Heat Elements:**
  - **Diameter:** 6mm
  - **Total Heat Cartridge Count:** 8x
    - **Size:** 4x - Length: 80mm
    - **Size:** 4x - Length: 125mm
- **Dual Temperature Control:**
  - PID manual tuning capability
    - **Top Plate:** 4x
      - Heat Cartridge = 320w
    - **Bottom Plate:** 4x
      - Heat Cartridge = 320w
  - **Total Watt:** 640w
- **Features: Placement**
  - Linear Temperature Range
  - Heater Element: 80% from Resin Surface
  - Digital Temperature Probe: Placed equal distance from Surface Area-to-Heat Element for Accurate +/-1° Reading.





# INFORMATION

- 2. Unboxing & Safety
  - 2.1 Unboxing Procedure .....
  - 2.2 Safety Measures

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# UNBOXING



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# MAINTENANCE & TROUBLESHOOTING



## B.2 Common Issues & Solutions

- **Heater fails to reach set point:**
  - Verify line voltage at rear-panel inlet.
  - Inspect thermal fuse and heater-element continuity with a multimeter.
  - Ensure heaters are fully seated against the platens.
- **Air delivery irregular or low flow:**
  - Confirm air supply is 80–120 PSI at the regulator.
  - Clean or replace the inline filter element.
  - Check all tubing for kinks, damage or loose push-fit connections.
- **Pneumatic actuator won't move or retract:**
  - Make sure the Emergency-Stop is released (twist and pull).
  - Test the solenoid valve by listening for an audible “click” when you start a cycle.
  - Inspect tubing at the valve manifold for leaks or mis-routed lines.
- **Control interface unresponsive:**
  - Release the E-Stop, then perform a full power-cycle.
  - Verify firmware is current; update via USB or Wi-Fi if needed.

# MAINTENANCE & TROUBLESHOOTING



## B.3 Frequently Asked Questions

- **Can I swap heated plates?**  
Yes. It is possible. Contact support for assistance.
- **How often should I calibrate sensors?**  
Annually or every 800 operating hours — whichever comes first — to maintain temperature and pressure accuracy.
- **When should I replace the air filter element?**  
Every 6 months or after 500 hours of use, whichever occurs first, to prevent flow restrictions.

## B.4 Cleaning & Preventive Maintenance

- **After each run:**  
Wipe heated platens with a lint-free cloth moistened with isopropyl alcohol.
- **Monthly:**  
Apply a thin film of NSF H1 food-grade silicone grease to linear guide rails.
- **Quarterly:**  
Inspect all pneumatic fittings and tubing; replace any showing wear or leaks.
- **Support & Service:**  
Email [info@accessrosin.com](mailto:info@accessrosin.com) or call +(949) 373-5337 for technical assistance and genuine replacement parts.

# MATERIAL PREPARATION & THROUGHPUT



1. Material Preparation & Throughput
  - 3.1 Material Volume / Press
  - 3.2 Material Guidelines
  - 3.3 Weighing & Filling Material
  - 3.4 Pouch Loading & Placement
  
  - 3.5 Collection Options

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# Processing Volume

## Throughput Capacity

- **Cycle Time:** 2–6 minutes per pressing cycle
- **Total Material Surface Area:**
  - 20” sq - V3 Rosin Bag
  - 36” sq. - V4 Rosin Bag

## 1. Material Guidelines

### 1.1 Hash (Kief) Processing

- **Sieve Grade:** Kief-grade material, pre-screened through mesh
- **Rosin Bag:** Trapezoid-shaped
  - **Configuration:** Double-bagged, inverted (“flip-inside-out”) for easier cleanup
  - **Bag Capacity:** 20–60 g per inner bag
  - **Total Press Load:**
    - **Minimum:** 20 g
    - **Maximum:** 60 g

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### 1.2 Flower (Hemp & Cannabis) Processing

- **Material:** Dried flower, 12–18 % relative humidity
- **Bag Type:** Single-bag, inverted (“flip-inside-out”)
- **Material per Bag:** 7–28 g
- **Nug Sizes:** Small, Medium, Large
- **Total Press Load:**
  - **Minimum:** 7 g
  - **Maximum:** 28 g (quarter-pound)
- **Note:** Trim is best routed through a wash step to produce hash before pressing for optimal yield.

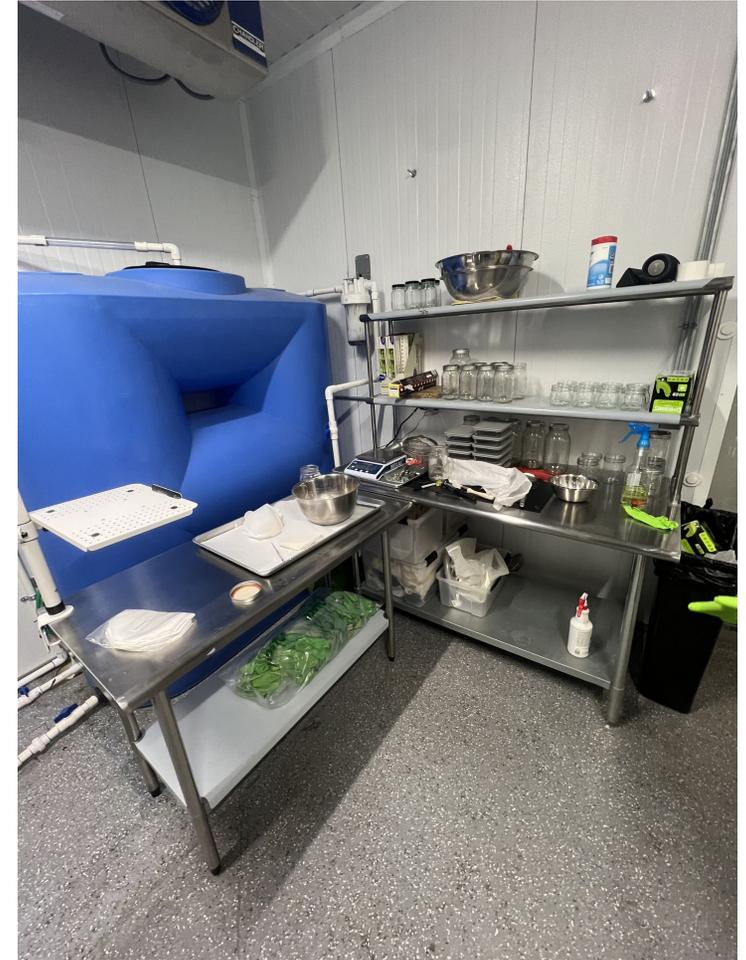
# Workstation Preparation

Sanitize and clear your work surface.

- Remove all contaminants, debris, and non-essential items.
- Arrange tools within reach: precision scale, puck mold set (male & female halves), tongs, approved gloves, hair net, and gown (GMP attire).
- Don full GMP dress: hair net, lab coat or gown, and disposable gloves. Replace gloves if they become soiled.

Rosin Bag Inspection & Setup

- Visually inspect each rosin bag for tears, pinholes, or sewn seams. Discard any damaged bags.
- Invert the bag (flip inside-out) and inspect the interior.
- Set the empty bag on the bench, open end facing you, ready for filling.



# Filter (Rosin) Bag

## • C.3 Weighing & Filling Material

- 1. Tare your precision scale and zero to  $\pm 0.01$  g.
- 2. For flower: weigh 20–28 g; for hash: weigh 20–50 g, depending on bag size.
- 3. Gently pour or spoon material into the inverted bag, keeping contents centered.

## • C.4 Flattening & Puck Formation

### • \*\*Option A – Puck Mold\*\*

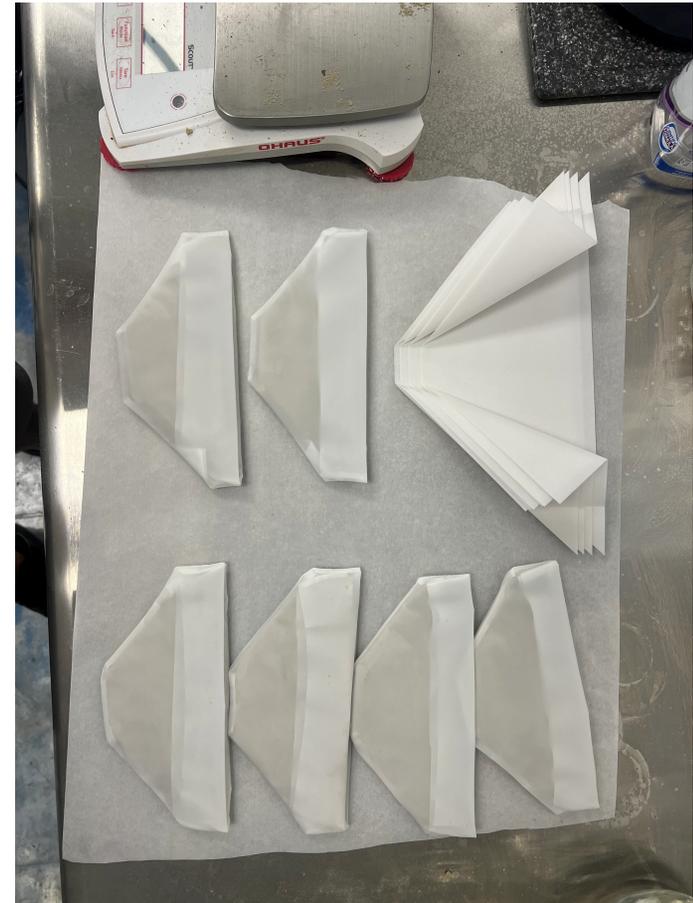
- a. Place a pre-cut trapezoid of parchment in the female mold half.
- b. Fill mold with weighed material.
- c. Cover with second parchment trapezoid.
- d. Compress with the male mold half until puck thickness is 0.250" ( $\frac{1}{4}$ ").
- e. Flip mold assembly over, remove the female half, press in sidewalls, and extract the puck.
- f. Slide the puck into the inverted rosin bag, then re-flip bag right-side-out.

### • \*\*Option B – Manual Flattening (Hash Only)\*\*

- a. Fold the top edge of the inverted bag over 1.5" to close.
- b. Use gloved hands to compress and spread hash into an even layer.
- c. Double-bag by folding the outer bag over and tucking it in.
- d. Pre-press between parchment sheets at 90–110 °F to pre-melt and set thickness.

## • C.5 Double-Bagging Prevention

- 1. If using a single bag, invert and re-seal to protect seams.
- 2. For extra security, insert the filled bag into a second bag and invert again.
- 3. Verify both bags are seated flat with no wrinkles.



# Parchment Paper

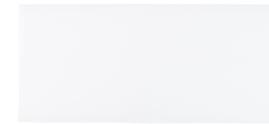
## Loading into Parchment Pouch

1. Open one side of the half-folded parchment pouch.
2. Insert the rosin-bag assembly with tongs, pushing it fully to the back.
3. Do **\*\*not\*\*** pinch or agitate the pouch corners—this can create micro-tears.
4. Visually confirm the bag sits centered and flat inside the pouch before pressing.

## Rosin Bag Placement & Channel Flow

- Fig A – Incorrect Placement
  - Do not allow the bag's folded corners to encroach on the flow channels.
  - Bulging edges block directional flow and cause uneven extraction.
- Fig B – Correct Placement
  - Pinch the side gutters (red arrows) to open and flatten the pouch mouth.
  - Press down on folds 5 & 6 (blue arrows) to stabilize the bag walls.
  - Ensure the bag lies flush against the back of the pouch with no wrinkles in the flow channels.
- Fig C – In-Press Verification
  - After insertion, confirm the bag remains centered and the side flow channels are fully open (green check).
  - Proper seating prevents back flow and ensures even rosin collection.

## Parchment Sheet



Fold 1 & 2



Fold 3 & 4

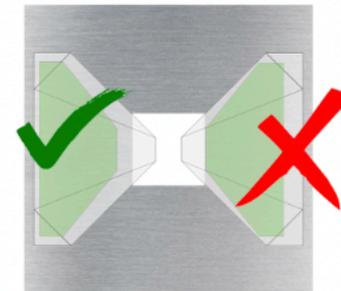
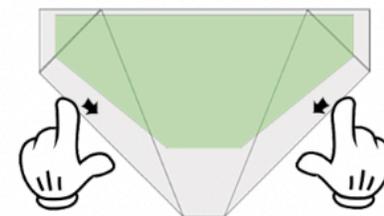
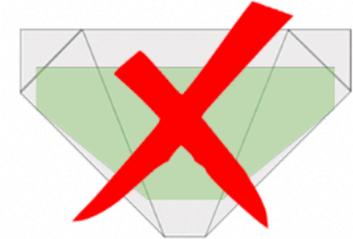


Fold 5 & 6



Pouch

## Flow Channel Prevention



# Parchment Paper (Post Process)



## Parchment Paper (Post Process)



# Collection Options



## Parchment Paper Sheet Collection

- Collect rosin onto a Parchment Paper sheet.
- Sheet collection is a great way to analyze the full range of spectrums throughout the rosin slab. Favor the parchment sheet placement inside the collection cavity to one side from the center. As the rosin falls, manually pull the parchment sheet while laying out a slab of rosin. For a consistent separation, watch which stage the rosin alters spectrums to determine the dominate spectrum.



## Jar Collection

- Collect rosin directly into a jar. 8oz - 64oz, preferably a widemouth.
- Use multiple jars to separate the different spectrums, and preserve more terpenes and flavonoids that typically off-gas in open environment.



## Terp Collector

- Pressing enclosed with the tarp collector attachment

Attachment for Flow Control Technology

Provides collection options

Designed to minimize off-gassing

Preserves terpenes and flavonoids

Dispenses directly into your jar

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# F.C.T SOFTWARE BY ACCESS ROSIN®

- D.1 Home Page - Plate Movement Calibration
- D.2 Home Page - Settings
- D.3 Safety Precaution - Two Hand Operation
- D.4 Pressure Information / Warning
- D.5 Programming a Recipe
- D.6 Create a Recipe Template
- D.7 Program Stage Inputs
- D.8 Final Stage Complete Extraction

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# FCT Software - Plate Movement Calibration

## Technical Explanation

Access Rosin's® FTC or Flow Control Technology Software is the hub to The Rosin Machine's ability to precisely control a 100-Ton double-acting hydraulic operating system.

The Rosin Machine runs FCT software to automate the steps in the pressing process such as applying PSI, regulating PPSI, and increases the PSI automatically throughout the cycle. During a press, the heat plates are temperature controlled by an intergraded PID controller within the FCT Software.

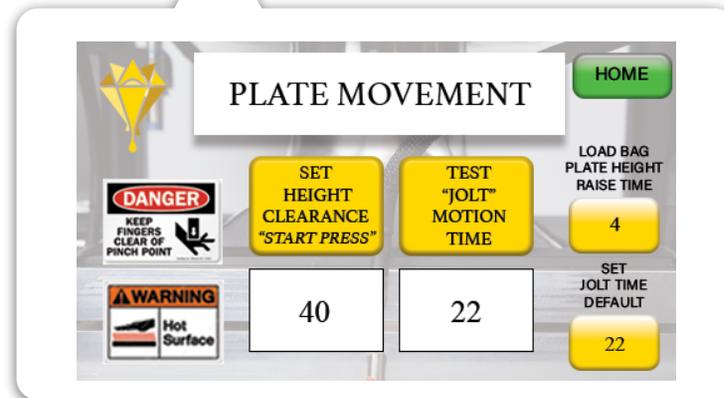
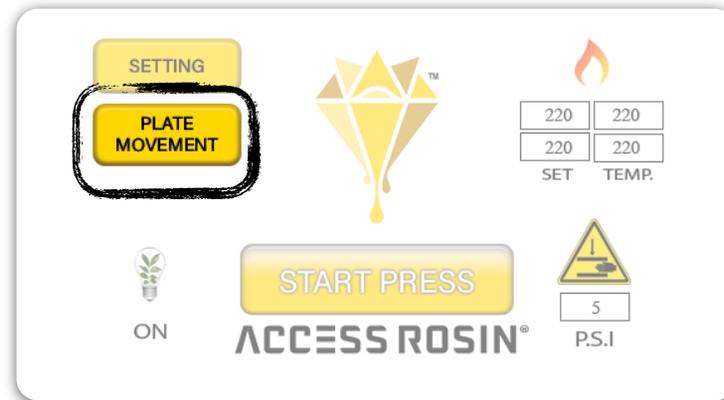
### Home Page

- **D1.1 - Plate Movement:** *To enable the 0 P.S.I for sensitive beginning cycle pressure, and/or used as pre-press, calibrate the plate movement to the thickness of the pouch .*

- Plate Height "Start Press":** Use this time (seconds) setting to calibrate the top plate height, after pressing "Start Press". A ready-to-press pouch should fit snug between the plates.
- Jolt Time:** Use this time (seconds) as a setting to move, after the plate height calibration, which is the first movement that moves in time to lower the plates to slightly touch the pouch, without adding any pressure. Too much time may and can add pressure. If pressure is applied past the set stage psi, then the cycle will skip those times, and cause the oil to "decarb" between the plates. Use this Jolt Motion to liquify (pre-melt) resin glands.

- **Load Bag Plate Height Raise Time:** If plates are too close together when inserting pouches at "load bag" screen, use this time setting to raise the plates by this set time.
- **Set Jolt Time Default:** This is the default jolt motion time when you use Recipe Creator. Manually input jolt time for recipes.

## Software Screenshots



# ACCESS ROSIN®

# FCT Software - Settings

## Technical Explanation

### • D1.2 - Setting

- **Max P.S.I:** Govern the max pressure load for which the cylinder is able to apply pressure at any given time.
  - The Rosin Machine requires a MAX P.S.I input to operate movement. FACTORY SET IS 7500 psi.
- **P.S.I Bandwidth:** During a running cycle, the pressure will compensate for any pressure loss and maintain a pressure psi set point. The system will regulate pressure psi within this set P.S.I loss input.
- **Add +P.S.I Cycle Run:** During a running cycle, it is good to add pressure during
- **Cycle Complete Auto-Finish Timer Default:** When the cycle completes, the user has a set time to max out the press with no pressure limitations. The user is able to pause the timer, and finalize a press by max time or max pressure. SETTINGS ARE FACTORY SET. If for any reason any factory settings have changed, contact Access Rosin.

**A. Pressure Calibration:** The hydraulic pressure sensor requires a calibration as each sensor is unique. SETTINGS ARE FACTORY SET. If for any reason the calibration has changed, contact Access Rosin.

**B. PID Controller:** The ability to control aggressive or sensitive heat application. SETTINGS ARE FACTORY SET.

**C. Temperature Calibration:** The temperature sensors are calibrated here. SETTINGS ARE FACTORY SET.

## Software Screenshots

**ACCESS ROSIN®**

SETTING

PLATE MOVEMENT

220 220  
220 220  
SET TEMP.

START PRESS

ON

ACCESS ROSIN®

P.S.I

5

**SETTING** HOME

DANGER  
KEEP FINGERS CLEAR OF PINCH POINT

WARNING  
Hot Surface

PID CONTROLLER

PRESSURE CALIBRATION

TEMPERATURE CALIBRATION

CYCLE COMPLETE AUTO-FINISH TIMER DEFAULT

10

**PRESSURE CALIBRATION** BACK

MAX P.S.I

7500

P.S.I BANDWIDTH

10

ADD +P.S.I CYCLE RUN

25

HIGH PRESSURE 20000 4-20<sup>MA</sup>

LOW PRESSURE 4000 4-20<sup>MA</sup>

READOUT 4008 4-20<sup>MA</sup>

LIVE P.S.I 1

**P.I.D CONTROLLER** BACK

ACTUAL SET POINT

TEMPERATURE 200 220

XOUT H 100 XOUT 62

PV LIMIT DIF. 2 X% .63

P.I.D. 5.5 150 0

TOP

ACTUAL SET POINT

TEMPERATURE 215 220

XOUT L 0 XOUT 52

CYCLE 115 X% .53

P.I.D. 5.5 150 0

TOP BOTTOM

**TEMPERATURE CALIBRATION** BACK

TOP PLATE SENSOR VALUE 14300

LOW HIGH

TOP PLATE INPUT VALUE 4000 20000

TOP PLATE OUTPUT VALUE 0 300 F

TEMPERATURE READING 210

TOP BOTTOM

BOTTOM PLATE SENSOR VALUE 14300

LOW HIGH

BOTTOM PLATE INPUT VALUE 4000 20000

BOTTOM PLATE OUTPUT VALUE 0 300 F

TEMPERATURE READING 210

WARNING  
Hot Surface

# FCT Software - Safety Precaution

## Technical Explanation

The Rosin Machine V3 controls the electronic hydraulic pump via hardwire connection.

Safety measures lock the toggle switch from being able to go “down” with one hand. A two-hand activation is required before starting a cycle “Load Bag Screen”, manually use toggle switch “Home Screen”, or to create a recipe manually using the “Recipe Creator”. One hand will need to Press & Hold the screen (Indicated in images), while the other hand simultaneously activates the toggle switch.

• **Manual (Toggle) Operation:** Manually Lower Top Plate at:

- A. **Home Page:** Use Two Hand Operation by pressing the “LOGO” on the home page with one hand, while activating the toggle switch down will then move the plate downward. **BE CAREFUL TO AVOID PRESSING THE “START PRESS” BUTTON** as this enters a cycle.
- B. In **Recipe Creator:** Use Two Hand operation by pressing the “LIVE PSI” box on the home page with one hand, while activating the toggle switch down will then move the plate downward.
- C. On the **Load Bag** page, and after loading the bags into the machine, use Two Hand operation by pressing and holding the green (temperatures) on the screen, while activating the toggle switch up with the other hand simultaneously. Release after activation and the cycle will start.



## Software Screenshots

Touch Indicated Locations on Screen with One hand, While use of Toggle Switch with other hand to Control Plate Movement Down Manually, or activate a cycle.

1.

SETTING  
PLATE MOVEMENT

220 220  
220 220  
SET TEMP.

ON

START PRESS  
ACCESS ROSIN®

5  
P.S.I

Left Hand Touch

2.

ACCESS ROSIN RECIPE CREATOR

EDIT RESET

NAME	XXX OG	MATERIAL	HASH	RECIPE TAG	4
BAG WEIGHT	50 G	BAG SIZE	20" QDF	BAG COUNT	4
MICRON SIZE	32 <sup>U</sup>				

L	1	2	3	4	5	6
TIME	20 <sup>S</sup>	15 <sup>S</sup>	13 <sup>S</sup>	10 <sup>S</sup>	15 <sup>S</sup>	20 <sup>S</sup>
JOLT	13	16	25	35	125	200
TEMPERATURE CONTROL	220	219	220	220		

LIVE.P.S.I 25

STAMP START

Left Hand Touch

3.

LOAD BAG COUNT FOR RECIPE # 4

WARNING Hot Surface  
DANGER KEEP FINGERS CLEAR OF MOVING PARTS

TOP PLATE 190  
BOTTOM PLATE 190

Adjust Plate Height

TEMPERATURE CONFIRMATION

Active cycle by, using one hand to press & hold center button, while simultaneously turning the selector switch with other hand.

Left Hand Touch



# FCT Software - Pressure Information / Warning

## Technical Explanation

FCT Software applies, regulates, and monitors pressure as low as (0psi) and incrementally 8 PSI / 1 PPSI increments. This kind of sensitivity allows The Rosin Machine to process high quality hash or kief without any slippage or blowouts. Additionally, the software controls the power of the equipped 30-Ton cylinder to apply and finish the cycle with pressure up-to (2500psi) which extracts all remaining resin inside the filter bag. Press **without** any pressure limitations, as The Rosin Machine can process both types of material, hash and/or flower equally as effective and efficient with optimize pressure control.

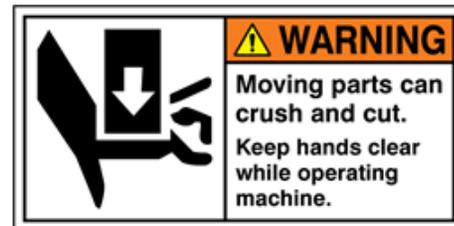
A. **Pressure Conversion** : The PSI translate from the Pump-to-Cylinder-to-Surface Area PPSI as followed.

- Pump P.S.I. = 8 P.S.I (*Display = Pump Gauge Readout*)
- Cylinder Force = 160 lbs
- Surface Area (135") = 1.1 PPS.I

B. **Safely Process Material** : To safely process material without slippage or blow outs

- A. When pressing hash / kief, rather a greasy material, it is important to consider processing 4 bags per press for more efficient pressure distribution.
- B. Set the first stages (1-3) to slowly ramp pressure, in small incremental P.S.I increases to safely apply pressure upon activation of a cycle.
  - A. In the liquify stage, when the plates move by jolt time vs a P.S.I reading, it is important the plates stop before compressing the pouch, which will add pressure to the reading causing a jump in pressure. If compressed, pressure is applied and the cycle will skip the first stage(s).
  - B. In stage 1, it is important that the machine finds minimal pressure (16 - 25 P.S.I).
  - C. In stage 2, it is a good idea to have the cycle incrementally increase pressure to assure a gradual ramp of pressure.
    - A. The goal is to liquefy the resin into rosin before a pressure jump. For example, a 0 to 80+ P.S.I. jump.
- C. When pressing flower, the adequate P.S.I should be applied early in a cycle to compensate for the plant material. In addition, maximum pressure is required to finalize a flower rosin press. Note, a thinner puck can help move rosin faster, and releases into the collection area faster, to prevent premature decarboxylation between the plates.

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A. **Rosin movement with Pressure** : What is happening?

- **Filter Bag** : After the resin glands has been liquefied into rosin, and pressure is applied, then rosin moves through the filter screen. Warmer temperatures will liquify the resin faster and turn the rosin more liquid than lower temperatures.
- **Pouch** : The rosin transfers from the filtration screen / rosin bag and enters the inside of the parchment paper pouch area known as the “gutters”, when pressure is applied the rosin moves down and out of the gutters to directional flow the rosin.
- **Collection Cavity**: When the pouch “gutters” fill with rosin and light increments of pressure is added then rosin will flow into the collection cavity. Typically visual flows begins after resin glands are liquefied into rosin and pressure pushes the rosin through the filtration / rosin bag.



# FCT Software - Programming a Recipe

## Technical Explanation

### Program a Recipe

- Recipe Information
  - Recipe Number
  - Step 1:** Name
  - Step 2:** Material
  - Step 3:** Bag Weight
  - Step 4:** Bag Size
  - Step 5:** Bag Count
  - Step 6:** Micron Size
- Programming Steps : Cycle
  - Input the amount of time for Stage L.
  - Input the Jolt time found in the Plate Movement Calibration the into Stage L “JOLT” slot.
  - Input the time, then the P.S.I for stage 1-6.
- Cycle
  - Incrementally control P.S.I throughout a range of time.
  - Total of 8 Stages.
    - Stage L : Controlled by Time called the “Jolt”
    - Stage 1 - 6 : Controlled by P.S.I
    - Stage 7 : Cycle Complete page “Final Press”
      - Cycle complete will Auto - Finish when default timer ends, unless the PAUSE button is pressed before timer ends.
      - PAUSED : The plates maintain compressed to assure a complete extraction process. UNPAUSE timer, when finished cycle ends.
      - SET : If rosin is still flowing into the collection cavity, input a higher or equal to P.S.I, then Press & Hold SET to apply P.S.I.
- Temperature
  - Individually set the top and bottom plates temperature to the desired recipe number.

## Software Screenshots:

### Recipe Data

**ACCESS ROSIN** SUMMARY

NAME	MATERIAL	RECIPE	
XXX OG	HASH	4	
BAG WEIGHT	BAG SIZE	BAG COUNT	MICRON SIZE
30 <sup>G</sup>	20" QDF	4	32 <sup>U</sup>

	L	1	2	3	4	5	6
TIME	90 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	45 <sup>S</sup>	30 <sup>S</sup>	20 <sup>S</sup>
JOLT	13	PSI 16	40	95	125	200	400

209	190	●
209	190	●

TEMPERATURE CONTROL

EDIT SAVE RUN

### Pressure

**ACCESS ROSIN** SUMMARY

NAME	MATERIAL	RECIPE	
XXX OG	HASH	4	
BAG WEIGHT	BAG SIZE	BAG COUNT	MICRON SIZE
30 <sup>G</sup>	20" QDF	4	32 <sup>U</sup>

	L	1	2	3	4	5	6
TIME	90 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	45 <sup>S</sup>	30 <sup>S</sup>	20 <sup>S</sup>
JOLT	13	PSI 16	40	95	125	200	400

209	190	●
209	190	●

TEMPERATURE CONTROL

EDIT SAVE RUN

### Temperature

**ACCESS ROSIN** SUMMARY

NAME	MATERIAL	RECIPE	
XXX OG	HASH	4	
BAG WEIGHT	BAG SIZE	BAG COUNT	MICRON SIZE
30 <sup>G</sup>	20" QDF	4	32 <sup>U</sup>

	L	1	2	3	4	5	6
TIME	90 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	45 <sup>S</sup>	30 <sup>S</sup>	20 <sup>S</sup>
JOLT	13	PSI 16	40	95	125	200	400

209	190	●
209	190	●

TEMPERATURE CONTROL

EDIT SAVE RUN

# Create a Recipe - Template

## Technical Explanation

## Software Screenshots



### Images of Recipe

**Recipe Number :**

**Name:**

**Material:**

**Bag Weight:** Grams

**Bag Size:**

**Bag Count:**

**Micron Size:**  $\mu$

**A. Liquify Stage (L)**

**A. Time:** Seconds

**B. Jolt:** Seconds of movement

**B. Stage I**

**A. Time:** Seconds

**B. Pressure:** P.S.I

**C. Stage II**

**A. Time:** Seconds

**B. Pressure:** P.S.I

**D. Stage III**

**A. Time:** Seconds

**B. Pressure:** P.S.I

**E. Stage IV**

**A. Time:** Seconds

**B. Pressure:** P.S.I

**F. Stage V**

**A. Time:** Seconds

**B. Pressure:** P.S.I

**G. Stage VI**

**A. Time:** Seconds

**B. Pressure:** P.S.I

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# FCT Software - Program Stage Inputs

## Technical Explanation

### Recipe Cycle: Stages L - 6

- A. Liquefy Stage (L) :** Pre-Press / Liquefy resin glands with 0 PSI
- Avoid excessive jolt time, as this may add pressure to the material, during the liquefy stage. If pressure is added, the next stage(s) can be skipped. To avoid, calibrate the jolt time to set the plate height to the thickness of the pouch.
    - Warm & Quick (W&Q) Press: 5-15 Seconds
    - Slow & Low (S&L) Press: 10-45 Seconds
- B. Stage 1 :** Minimize the amount of pressure applied.
- Test run a cycle before processing material to confirm a minimal P.S.I set point (16psi in example) stops within the tolerance.
    - Warm & Quick (W&Q) Press: 10 Seconds / 40 PSI
    - Slow & Low (S&L) Press: 90 Seconds / 25 PSI
- C. Stage 2 :** Begin ramping of pressure.
- At this point the resin glands are liquefied, and a pressure ramp will push liquefied resin (Rosin) through the filter screens, and into the parchment paper “gutters” flowing towards the opening.
    - Warm & Quick (W&Q) Press: 15 Seconds / 40 PSI
    - Slow & Low (S&L) Press: 60 Seconds / 25 PSI
- D. Stage 3 :** Soft pressure ramp.
- Monitor the collection cavity as rosin should begin to flow, if it has not started to flow in stage II already. A fast ramping cycle doubles the pressure each stage, yet a slower ramp simply added a small PSI increase each stage.
    - Warm & Quick (W&Q) Press: 15 Seconds / 95 PSI
    - Slow & Low (S&L) Press: 60 Seconds / 45 PSI
- E. Stage 4:** Continue pressure ramping.
- If the flow of rosin slows, +PSI during the cycle, and increase the PSI in the previous stage, or shorten the time in this stage.
    - Warm & Quick (W&Q) Press: 15 Seconds / 125 PSI
    - Slow & Low (S&L) Press: 45 Seconds / 60 PSI
- F. Stage 5 :** Continue pressure ramping.
- If the flow or drops of rosin slow down the cycle is over, and can be expedited by pressing SKIP or FINISH. The cycle will complete after last stage with a time input.

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## Software Screenshots

### Warm & Quick Press Example



220°  
1M:38S

	L	1	2	3	4	5	6
TIME	15 <sup>s</sup>	10 <sup>s</sup>	15 <sup>s</sup>	18 <sup>s</sup>	15 <sup>s</sup>	15 <sup>s</sup>	10 <sup>s</sup>
JOLT	22	16	40	95	125	200	400

TEMPERATURE: 220

CYCLE TIME: 1M:38<sup>s</sup>

LIVE PRESSURE: 125

### Slow & Low Press Example

175°  
6M:15S

	L	1	2	3	4	5	6
TIME	45 <sup>s</sup>	90 <sup>s</sup>	60 <sup>s</sup>	60 <sup>s</sup>	45 <sup>s</sup>	45 <sup>s</sup>	30 <sup>s</sup>
JOLT	20	16	25	45	60	125	400

TEMPERATURE: 175

CYCLE TIME: 6M:15<sup>s</sup>

LIVE PRESSURE: 45

# FCT Software - Program Stage Inputs

## Technical Explanation

### Recipe Cycle: Stages L - 6

- A. Liquify Stage (L) :** Pre-Press / Liquify resin glands with 0 PSI
- Avoid excessive jolt time, as this may add pressure to the material, during the liquefy stage. If pressure is added, the next stage(s) can be skipped. To avoid, calibrate the jolt time to set the plate height to the thickness of the pouch.
    - Warm & Quick (W&Q) Press: 5-15 Seconds
    - Slow & Low (S&L) Press: 10-45 Seconds
- B. Stage 1 :** Minimize the amount of pressure applied.
- Test run a cycle before processing material to confirm a minimal P.S.I set point (16psi in example) stops within the tolerance.
    - Warm & Quick (W&Q) Press: 10 Seconds / 40 PSI
    - Slow & Low (S&L) Press: 90 Seconds / 25 PSI
- C. Stage 2 :** Begin ramping of pressure.
- At this point the resin glands are liquefied, and a pressure ramp will push liquefied resin (Rosin) through the filter screens, and into the parchment paper “gutters” flowing towards the opening.
    - Warm & Quick (W&Q) Press: 15 Seconds / 40 PSI
    - Slow & Low (S&L) Press: 60 Seconds / 25 PSI
- D. Stage 3 :** Soft pressure ramp.
- Monitor the collection cavity as rosin should begin to flow, if it has not started to flow in stage II already. A fast ramping cycle doubles the pressure each stage, yet a slower ramp simply added a small PSI increase each stage.
    - Warm & Quick (W&Q) Press: 15 Seconds / 95 PSI
    - Slow & Low (S&L) Press: 60 Seconds / 45 PSI
- E. Stage 4:** Continue pressure ramping.
- If the flow of rosin slows, +PSI during the cycle, and increase the PSI in the previous stage, or shorten the time in this stage.
    - Warm & Quick (W&Q) Press: 15 Seconds / 125 PSI
    - Slow & Low (S&L) Press: 45 Seconds / 60 PSI
- F. Stage 5 :** Continue pressure ramping.
- If the flow or drops of rosin slow down the cycle is over, and can be expedited by pressing SKIP or FINISH. The cycle will complete after last stage with a time input.

# ACCESS ROSIN®

## Software Screenshots



	L	1	2	3	4	5	6
TIME	45 <sup>S</sup>	90 <sup>S</sup>	60 <sup>S</sup>	60 <sup>S</sup>	45 <sup>S</sup>	45 <sup>S</sup>	30 <sup>S</sup>
JOLT	20	16	25	45	60	125	400

TEMPERATURE: 175

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CYCLE TIME: 6M:15S  
LIVE PRESSURE: 45

SKIP +P.S.I.

# FCT Software - Complete Extraction / Final Press

## Technical Explanation

### Press without any pressure limitations!

**G. Stage 6 :** The cycle completes automatically when the last stage in the cycle time ends.

- It is best to have this stage with some additional time to fully extract the material. In addition, this should be your highest P.S.I setting in the cycle. When the use of Post Melt Separation this stage imitates a “second press”.

### Cycle Complete Page

#### H. Stage 7 : Cycle Complete

- The cycle has completed the 7th stage. Finish the press by PAUSE the finishing timer, set a pressure set point, and press&hold SET to raise PSI to the new set point. Complete the extraction with a “third” and final press on this page. Once the rosin stops flowing / dripping, unpause the timer or press DONE to finish the cycle.

#### • FINISH TIME

- Pause to stop the timer. When timer is finished, the plate will raise and return to home page

#### • FINAL - COMPLETE EXTRACTION PRESS

- PAUSE the Time by pressing the PAUSE button, then set a new desired pressure. Press & Hold the SET button for 5-seconds to increase pressure to the set limit.

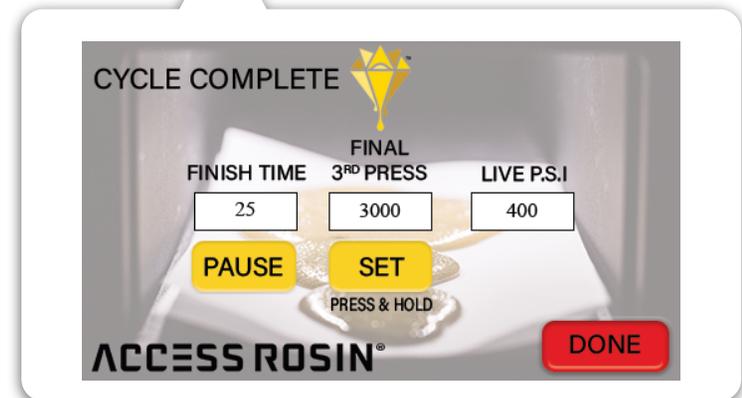
#### • LIVE P.S.I

- Active pressure in P.S.I as a Live read-out.

*ENJOY THE ROSIN*

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## Software Screenshots





# PROCESSING TIPS

- E.1.1 Melting Points of Rosin
- E.1.2 Terpene Preservation Insight

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# MELT POINT OF ROSIN



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## Ground-Breaking Logical Discovery



205°	Melting Point	Boiling Point
<b>Cannabinoids</b>		
	Half Life	
THCA	110	220
CBG	110	220
THC	157	314
CBD	169	338
8-THC	175	350
CBN	183	365
CBC	183	365
THCV	214	428
CBDA	397	794
<b>Terpenes</b>		
B-caryophyllene	123	246
A-pinene	156	312
B-myrcene	169	338
1,8-cineole	174	348
D-limonene	175	350
P-cymene	175	350
Linalool	194	388
Terpineol-4-ol	204	408
A-terpineol	212	424
Pulegone	218	435
<b>Flavonoids</b>		
B-sitosterol	137	273
apigenin	176	352
Cannflavin A	180	359
Quercetin	241	482

## Key Factors in Temperature and Pressure:

- **Thermal Conductivity of Resin:** The resin's material properties, including its thermal conductivity and specific heat capacity, will affect how much heat increase occurs under pressure.
- **Pressure-Induced Temperature Rise:** Typically, a modest temperature increase may occur with added pressure due to increased molecular motion, though this increase is often minor in organic materials. For rosin pressing, we can approximate a slight temperature increase—often in the range of a few degrees Fahrenheit.

For the sake of this analysis, let's assume the pressure results in a small temperature increase of about 5-10°F (2-5°C) beyond the initial heat plate setting. I'll walk through how specific terpenes may off-gas at these pressing temperatures.

## Off-Gassing of Terpenes at 170-210°F:

Here's a breakdown of key terpenes and their boiling points, to estimate which may be lost at your target temperature range:



# Terpene Prevention

## Terpene Boiling Point (°F) Likely Off-Gassing at 170-210°F?

### Likely Off-Gassed Terpenes:

- **Caryophyllene**, **Humulene**, and **Pinene** are the most prone to off-gassing in this range, as their boiling points are close to or below 210°F.
- **Myrcene** will likely also start to evaporate at the higher end of this range.
- **Limonene** and **Linalool** may experience some loss at the upper limits.

### Flavonoids:

Since flavonoids generally have higher boiling points (often above 250°F), they are less likely to off-gas at these temperatures. However, extended pressing time could eventually lead to minor degradation or loss of some flavonoids if the press is maintained at the higher end of the temperature range.

### Practical Tips to Reduce Loss:

To minimize terpene loss, consider pressing at the lower end of the temperature range (170-180°F) and adjusting the pressure to balance yield with terpene preservation. Additionally, reducing the press time can also help retain more volatile compounds.

#### **Myrcene**

330–334

Yes (partial loss)

#### **Limonene**

349–351

Likely some off-gassing

#### **Pinene**

311–312

Yes (significant loss)

#### **Linalool**

388

Minimal at low end, more likely at high end

#### **Caryophyllene**

246

Yes (significant loss)

#### **Humulene**

225

Yes (moderate loss)

#### **Terpinolene**

361

Minimal at low end, some loss at high end



# DOCUMENTS

- F.1 Disclaimer & Warning
- F.2 Warranty

**ACCESS ROSIN<sup>®</sup>**

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# DISCLAIMER & WARNINGS

- **DISCLAIMER:** The AIR Rosin Press requires a regulated compressed-air supply. Connect only to dry, oil-free air at 80–120 PSI. Ensure the press is securely mounted before operation.
- **DISCLAIMER:** Operation utilizes a pneumatic cylinder and control-valve assembly. Do not substitute hydraulic components.
- **DISCLAIMER:** Both the press and its air regulator must be connected to separately rated sources as specified on the serial-number label.
- **DISCLAIMER:** Connecting to any unapproved air or electrical source will void your warranty.
  
- **WARNING:** This equipment is top-heavy. Use proper lifting techniques and team lifting when relocating—avoid changing elevations on stairs or uneven surfaces.
- **WARNING:** Heated plates reach up to 220 °F and can cause severe burns. Never place body parts or foreign objects between or on the platens.
- **WARNING:** Pinch points exist around the moving platen—keep hands clear at all times and use approved tools for pouch insertion.
- **WARNING:** Always wear heat-resistant gloves, safety glasses, and hearing protection during operation.
- **WARNING:** Exceeding the maximum air supply of 120 PSI may trigger an over-pressure fault, damage components, and void the warranty.
- **WARNING:** Use only the factory-supplied AC power cable. Alternate voltages or connectors can damage the unit and void the warranty.
- **WARNING:** If the plate-status indicator on the display is red, the plates are hot enough to cause burns.
- **WARNING:** Insert and remove parchment pouches only with approved tools (e.g., tongs)—do not handle hot pouches by hand.
- **WARNING:** Pressing the Emergency-Stop button will immediately cut power to the heaters and vent air to retract the platen. To reset, twist the E-Stop, press the green ON button, and allow the system to reboot before resuming operation.
- **WARNING:** Do not press materials other than dry plant biomass. Pressing other objects will damage the press and void the warranty.
- **WARNING:** When cleaning platens with isopropyl alcohol, disconnect both power and air supplies, allow the plates to cool to room temperature, and wear protective gloves and eye protection.

# WARRANTY

- **Access Rosin® Limited Warranty**

Access Rosin® stands behind the craftsmanship and durability of the AIR Rosin Press PureX. This Limited Warranty outlines your coverage and responsibilities.

- **Structural Frame Warranty**

10-year limited warranty against manufacturing defects in structural components (frame).

- **Pneumatic & Electrical Components Warranty**

2-year limited warranty against manufacturing defects in pneumatic cylinders, valves, regulators, electrical controls, and heaters.

- **Consumable & Wear-Item Warranty**

1-year limited warranty on consumables and wear parts (bags, gaskets, filters).

- **Warranty Replacements**

Upon approved claim, Access Rosin will supply necessary replacement parts or assemblies at no charge. Shipping costs for warranty repairs may be covered at Access Rosin's discretion.

- **Replacement Parts**

Genuine replacement parts are available directly from Access Rosin®.

- **Exclusions & Limitations**

Warranty does **not** cover:

- Normal wear and tear of consumables.
- Damage from misuse, abuse, contamination, or unauthorized modifications.
- Improper air or electrical supply, or use of non-factory components.
- Cosmetic damage, corrosion, or environmental damage.
- Damage from accident, neglect, or force majeure events.

This warranty is non-transferable and applies only to the original purchaser.

# WARRANTY

- **Limitation of Liability**

Except as expressly provided herein, Access Rosin® disclaims all other warranties, express or implied (including merchantability and fitness for a particular purpose). Access Rosin's liability shall not exceed the original purchase price of the product.

- **Warranty Service Procedure**

1. Email [support@accessrosin.com](mailto:support@accessrosin.com) with:

- Machine serial number
- Date of purchase
- Detailed description of the issue

2. If approved, you will receive a Return Merchandise Authorization (RMA) number.

3. Ship the defective part(s) with the RMA number clearly marked.

4. Access Rosin® will repair or replace and return the item promptly.

- **Contact for Assistance**

Access Rosin Support

Email: [support@accessrosin.com](mailto:support@accessrosin.com)

Phone: +1 (949) 373-5337 x 1