

BAS=LAYR **DARKROOM EQUIPMENT**



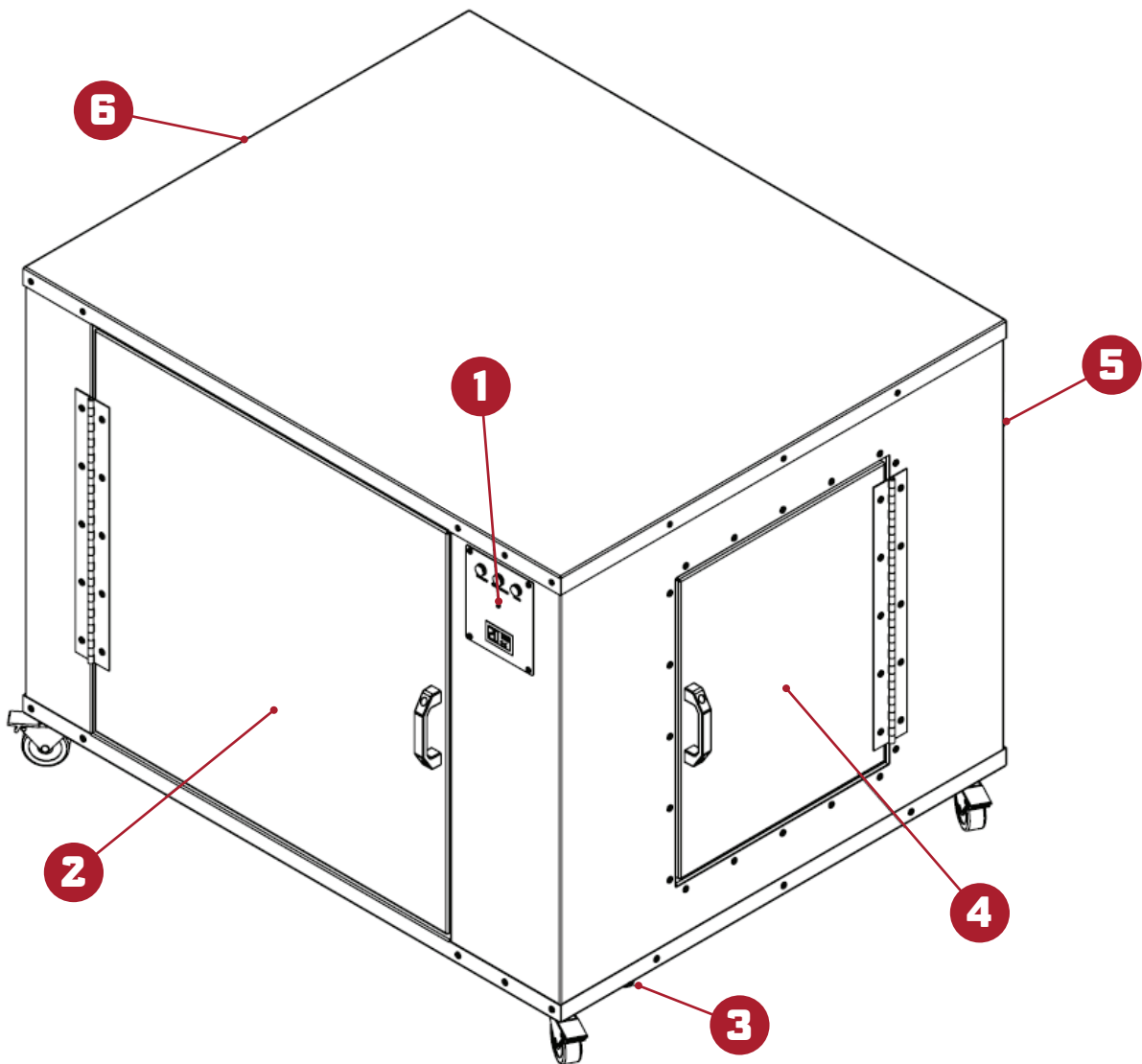
OPERATING INSTRUCTIONS

BASELAYR SCREEN DRYING CABINET
HOLDS 20" X 24" & 23" X 31" FRAMES



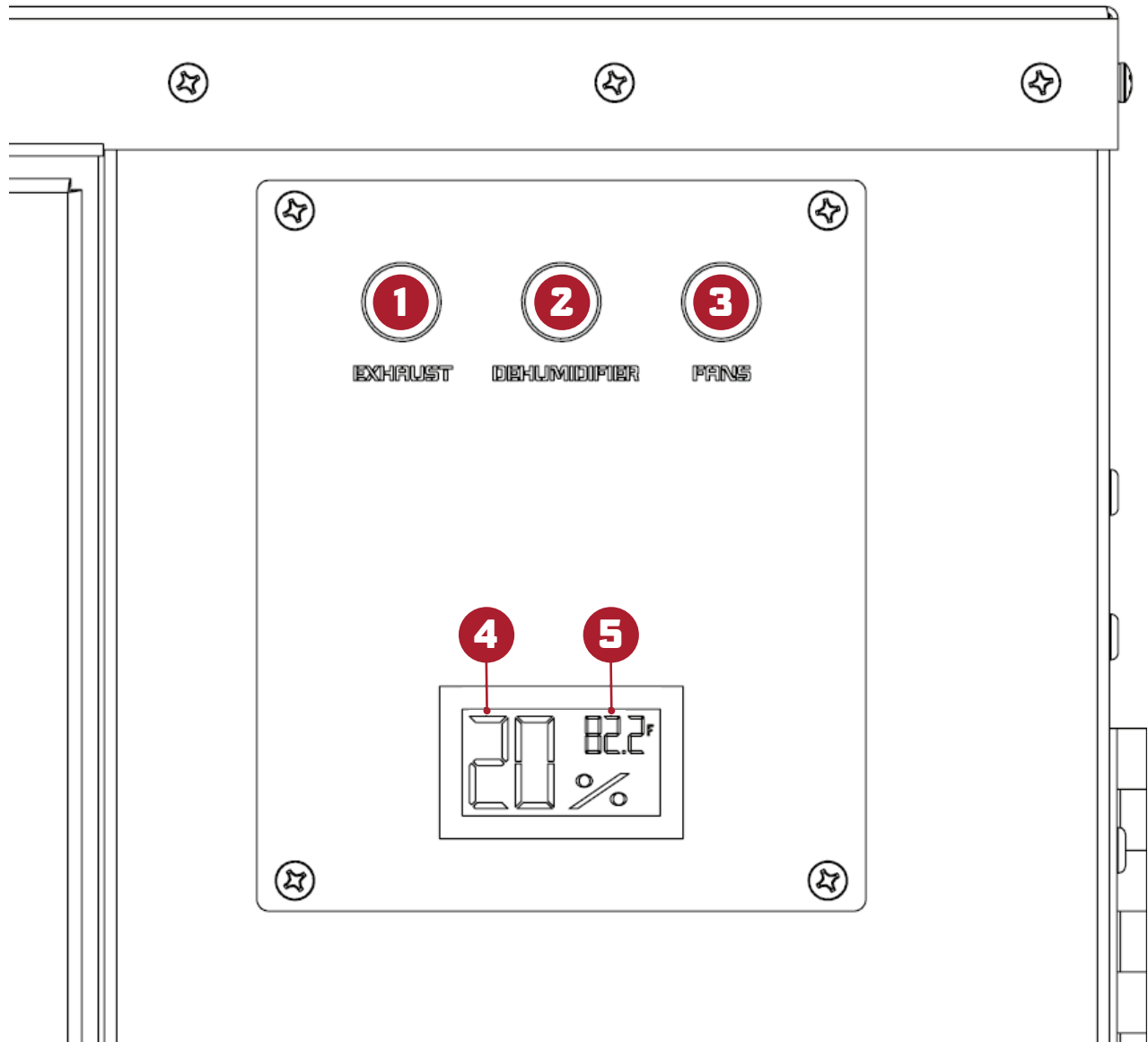
CABINET OVERVIEW

1. Control Panel – Operates the cabinet functions.
2. Screen Holding Door – Holds Qty 10 frames 23 24" width with a 32" max screen depth.
3. Optional Drain Nut – Holds dehumidifier drain hose in place.
4. Dehumidifier access door - For small dehumidifier installation. Max dehumidifier size 14"W x 7"D x 18"H.
5. Exhaust Fan outlet – Optional exhaust fan for high cabinet heat.
6. Air Intake Vent – Adjustable air intake to lower internal temperature.



CONTROL PANEL

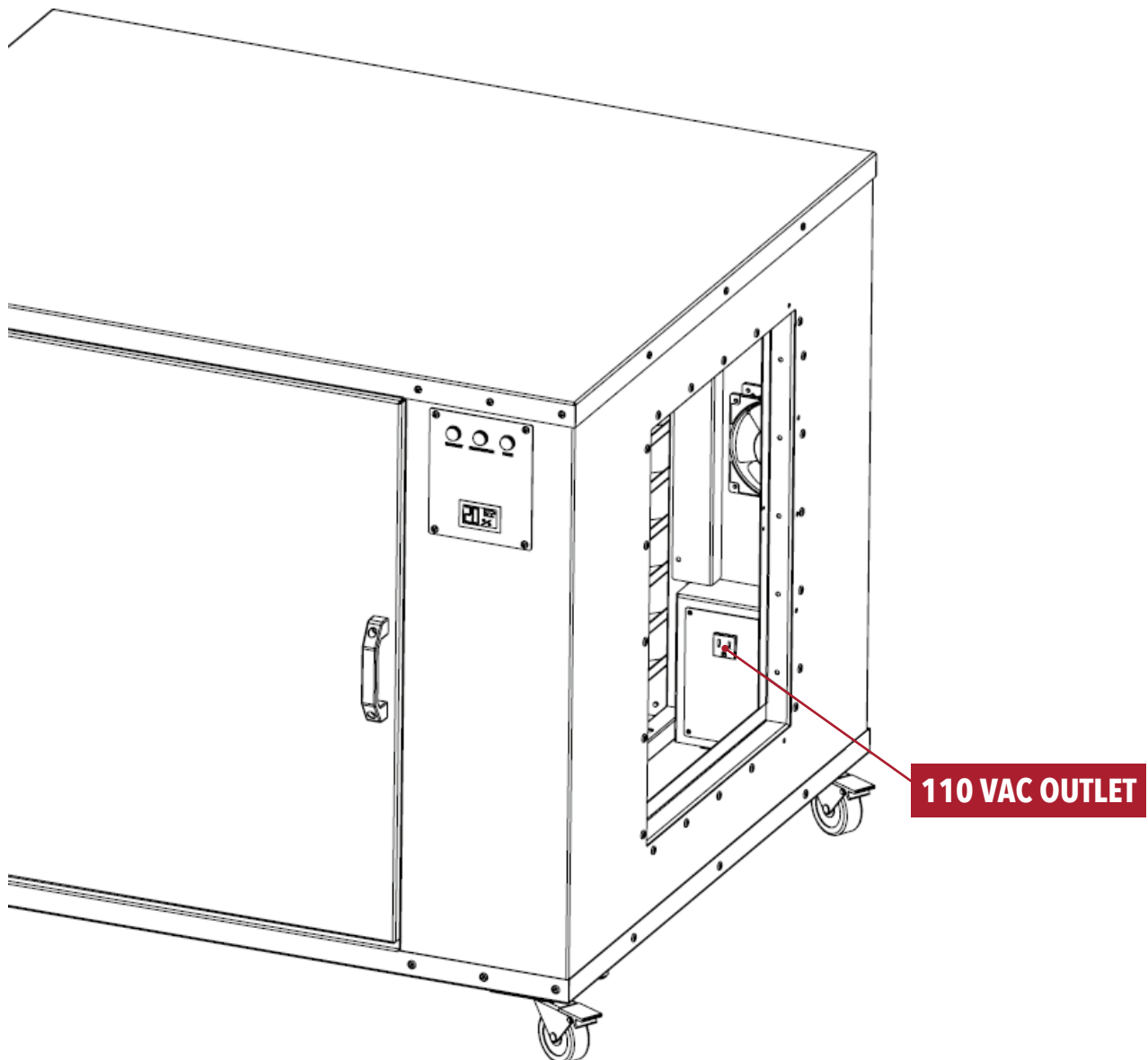
1. Exhaust Fan – Optional exhaust for cabinet temps over 96°.
2. Dehumidifier Switch – Operate on/off power to dehumidifier outside of the cabinet.
3. Fans - Operates main air circulation fans.
4. Humidity – Displays relative humidity levels inside of the cabinet. +/- 5% accuracy
5. Temperature Reading – Displays current Fahrenheit temperature inside of the cabinet. +/- 2% accuracy.



SIDE ACCESS DOOR

The side access door is for the installation of a small dehumidifier (customer supplied). This is an optional addition to your cabinet. The standard air circulation fans will dry screens but at a slower rate. If your dehumidifier is equipped with a drain hose, use the optional drain nut to route the hose outside of the cabinet. The dehumidifier must be 110 VAC.

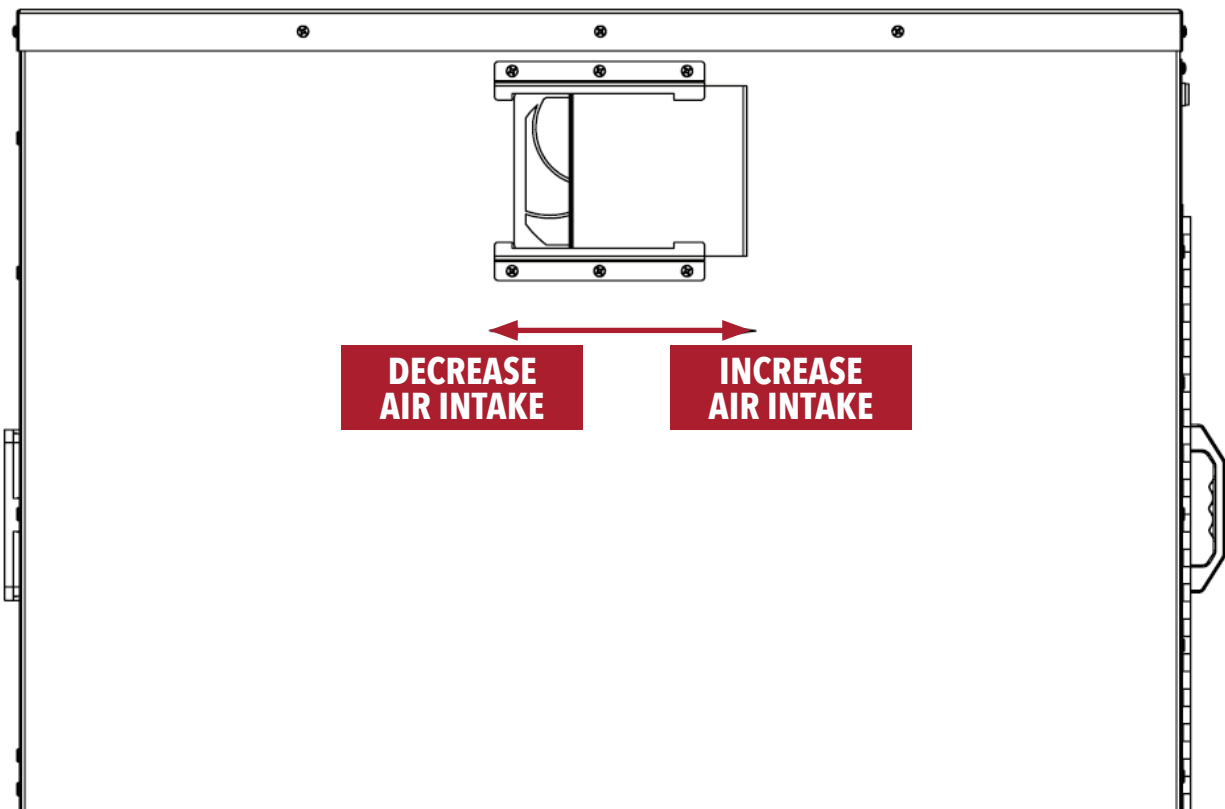
NOTE: Max dehumidifier size 14" Wide x 7" Deep x 14" High.



AIR INTAKE VENT

The air intake can be adjusted by sliding the vent left or right. Slide to the right to increase the outside airflow into the cabinet. Slide to the left to cut off outside airflow to the cabinet. If the temperature in your darkroom is lower than the cabinet temperature, opening the vent will decrease the cabinet temperature. To rapidly increase the cabinet temperature, fully close the slider vent.

NOTE: The vent slider can be replaced by removing the slider channels. The vent cover is then removed by hand.



FAQ/TROUBLESHOOTING

Important information regarding Emulsion and heat.

*The below is meant to be a broad explanation of how emulsion behaves when wet and when dried. It is meant to be a general guideline to help you the printer get the best results from your coated screens.

All emulsions have sensitivity to high temperatures. Once an emulsion experiences heat over 100°F it will start a slow chemical reaction inside. The higher the heat, the faster this reaction will take place. When a coated screen is wet, this reaction happens very slowly (this is also true with sealed containers of emulsion). When a coated screen is dry, this reaction will happen faster. This is why it's recommended to store coated screens at room temps (low to mid 70's°F) for maximum longevity and detail resolution. Even when stored in the proper environment, your coated screen has a shelf life of no more than 6-8 weeks. At ~2 weeks you can start to see small details become harder to rinse out and as time goes on, your images will become more and more difficult to properly develop.

Diazo is more sensitive to heat. Diazo-mixed emulsions (both on coated screens and in containers) will fail faster depending on how hot the storage environment is.

Example:

Emulsion with diazo in it has a normal shelf life of approximately 4-6 weeks when kept at room temps of 72°F. If kept at colder temps this can be extended to about 8 weeks. When the temperature exceeds ~95°F your container of emulsion will have a shelf life of approximately 1 week. At +100°F it's a few days. A coated and dried screen has a faster shelf life as well.

When drying a coated screen please keep the following in mind:

1. Pure Photopolymer and SBQ emulsions
 - DO NOT exceed 110°F if at all possible
 - DO NOT exceed 100°F for more than 24 hours when possible
2. Diazo-Mixed emulsions
 - DO NOT exceed 100°F if at all possible
 - DO NOT exceed 90°F for more than 24 hours when possible

If your screens experience heat higher than is listed, please use the dried screen quickly and test for proper stencil and detail development.

Recommendations for controlling temps in your dry cab.

When the in front of heat starts to get close or exceeds recommendations open side sliding vent. Depending on what your room conditions are, this will cool the unit quickly or slowly. If heat is still at or exceeding recommended limits, turn on the exhaust fan to cycle air through quicker.

Recommended Humidity levels for your emulsion type

Pure Photopolymers and SBQ emulsions (basically everything that does NOT have Diazo added to it) are best when humidity is below 40% (ideally 30%). These emulsions can still be used when relative humidity is above 40% but the detail and strength of the stencil can be compromised. Diazo-mixed emulsions need to be properly dry in order to successfully expose. Relative humidity will need to be below 40% and ideally closer to 30% before a successful screen can be made.

Please note: The thicker your stencil whether that's from using low mesh counts or from multiple coats of emulsion WILL take longer to fully dry than would be expected. The relative humidity can be 30% and the screen is still too moist inside the stencil. Think of a cake that is undercooked and is still gooey inside.

Do I need a dehumidifier in this unit?

Do you know how dry is it where you live and work? If you are living in Arizona and your average relative humidity is always below 30%, you may not ever need one. If you are living in Louisiana or Florida and the average humidity is above 60% year-round, using a dehumidifier would be beneficial.

What if you are in a warehouse space and your darkroom is connected to the offices and has AC or heating connected? Since the AC and heating units are typically drying any air that gets into the darkroom, it does a good job of controlling the humidity from the outside. Observe what the average humidity is in your darkroom at during two instances: What is it when you first walk in and what is it after you finish reclaiming or rinsing out screens? That information will determine if a dehumidifier is necessary or is beneficial in certain circumstances.

WHAT IS COVERED?

Baselayr warrants any Baselayr-Branded electronic equipment to be free from defects in materials and workmanship for a period of 3 years from the original date of purchase. This warranty covers all Baselayr-branded/ manufactured electrical equipment, excluding standard consumables, to be protected against defects, damages, or malfunctions under normal use during the warranty period. If you discover a defect in a product covered by this warranty, we will replace the part to repair the product, using new or refurbished components, or if repair is not possible, replace the item, free of charge.

WHAT DOES THIS WARRANTY NOT COVER?

Shipping or travel associated with a replacement or repair. Any problem that is caused by abuse, misuse, or any "Act of God" circumstance (such as a flood) is not covered. Also, the replacement of any standard consumables that have a natural wear and tear rate that will eventually result in that item needing to be replaced is not covered.

This warranty is non-transferable and can only be used by the original purchaser.

If standard consumables are faulty or damaged upon receipt Baselayr will need to be notified within the first 48 hours.

ITEMS	COVERED	NOT COVERED
LED UNITS	LED POWER SUPPLIES, AMBER LED POWER SUPPLY, TABLET CHARGER POWER SUPPLY, TABLET, RELAYS, POWER CHORD, FRAME & LID FRAME	GLASS, FUSES, NEOPRENE, LED LIGHT, AMBER LEDS & SHOCKS
DRYING CAB	ALL COMPONENTS	

