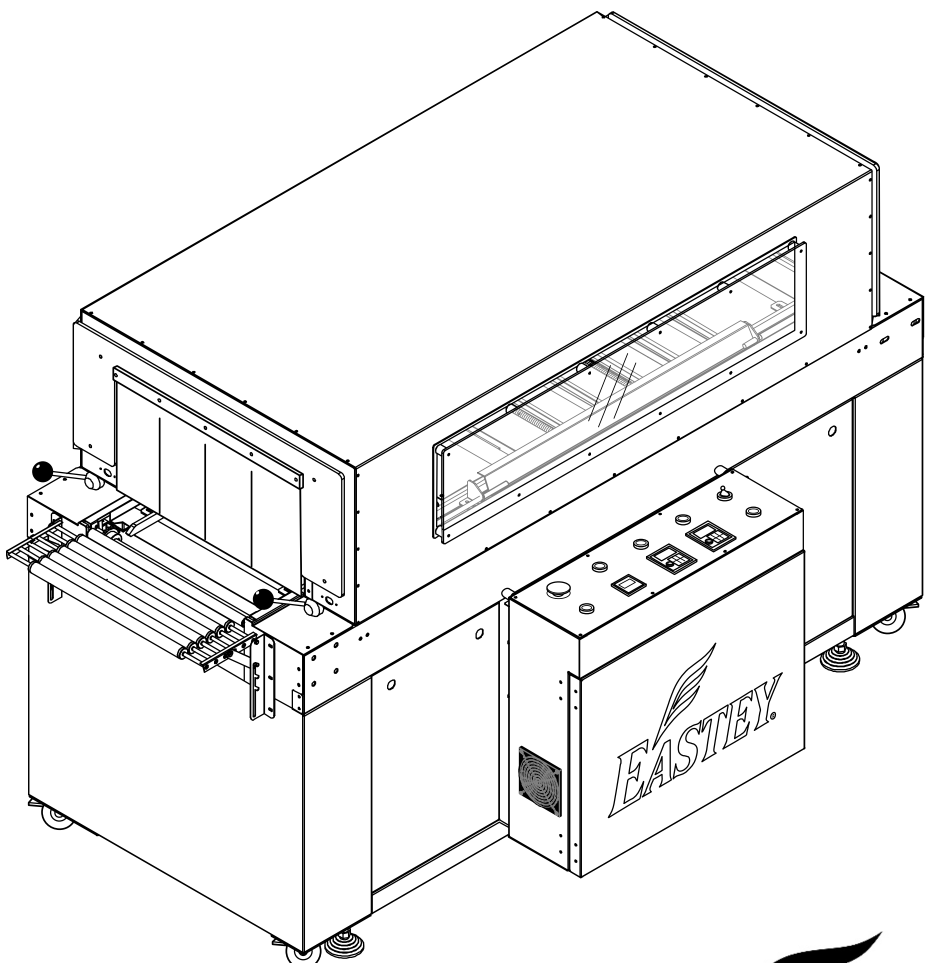
VST

VST1710-59-LRV2

Value Series
Shrink Tunnel

User Guide



EASTEY®

VST

VST1710-59-LRV2

Value Series Shrink Tunnels

User Guide

This User Guide is also available in digital form at:

Eastey.com/Support/User-Guides-Drawings

Check periodically for the most current revision.

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We Help Companies Deliver Products to the World

Thank you for choosing the Eastey Value Series Shrink Tunnel for your packaging needs. Eastey is part of Engage Technologies, an ISO 9001-2015 certified company that has steadily built a solid reputation for quality since 1991. Engage is known for providing rugged, durable, reliable packaging equipment to help companies deliver their products to the world.

Each Engage Technologies company – Squid Ink, Eastey, and American Film & Machinery (AFM), focuses on a different part of the packaging section of the production line.

ENGAGE *technologies corporation*

Squid Ink (www.SquidInk.com)
Coding and marking equipment, inks, and fluids for product identification and traceability

Eastey (www.Eastey.com)
Automated shrink wrapping and bundling, automated case sealing, case erecting and product handling

AFM (www.AFMSleeves.com)
Automated shrink sleeve labeling equipment, tamper-evident banding equipment, shrink tunnels and shrink sleeve consumables

When you purchase your packaging equipment from the Engage Technologies family of companies, you can feel confident that you have a machine that is first in quality and built to last. Thank you for choosing us for your packaging needs.

This User Guide is available online

This User Guide is also available from the Eastey Support Website in electronic format for web browsers and e-readers. Go to Eastey.com/Support/User-Guides-Drawings to see available User Guides, or scan the QR Code at right using the camera app on your mobile device to see available user guides.

Safety

Read this user guide carefully and make it available to everyone connected with the supervision, maintenance, or operation of this machine. Additional copies are available on request (Eastey.com/contact-us).

The development of a good safety program that is rigidly enforced is absolutely imperative when involved in the operation of industrial equipment. Our machinery is well designed and includes extremely important safety features. Proper installation, safe operation, and regular maintenance and upkeep are of far greater importance than our design. Only properly trained individuals following rigidly enforced safety rules, as recommended by ANSI and OSHA should be allowed to operate these machines.

Lockout / Tagout

Lockout/tagout procedures are safety-related practices developed, documented, and implemented by your company. Lockout/tagout procedures require safely shutting down and disabling the energy input to the machine and any connected equipment that could result in injury or equipment damage if accidental startup were to occur during inspection, maintenance, adjustment, or repairs. Part of disabling the energy input typically involves applying physical lock(s) to the energy input(s) so that the system cannot be accidentally restarted. Typical energy inputs include electrical, air, fluid, hydraulic, gravity, heat, or steam.

Your company must have lockout/tagout procedures in place for this machine before use. To prevent injury or equipment damage due to accidental startup, all inspection, maintenance, adjustments, or repairs to the machine must be governed by your company's lockout/tagout procedures and OSHA requirements and best practices.

WARNING: Failure to follow lockout/tagout practices can result in serious injury and/or equipment damage and may void the warranty

Note: OSHA provides information on lockout/tagout best practices consistent with Title 29, Code of Federal Regulations (CFR), Part 1910.147 and 1910.333, as a basis for companies to develop their own lockout/tagout procedures.

Be very careful when operating, adjusting, or servicing this equipment. If in doubt, stop and obtain qualified help before proceeding.

Lockout/Tagout on the Eastey VST Value Series Shrink Tunnel

Energy input for the Eastey VST Value Series Visible Shrink Tunnel is electrical. To power down the system prior to lockout/tagout, refer to special notes about the tunnel shutdown sequence in this User Guide Shutting down the tunnel using the preferred shutdown sequence helps prevent damage to the conveyor and internal components from excess prolonged exposure to heat inside the tunnel.

After the heater switch has been switched off, it will take some time (which may vary depending on heat settings) for the tunnel to cool down completely. When the tunnel cools to approximately 150°F or 66°C (unless a different cool-down temperature has been set) the tunnel conveyor and blowers will shut off automatically. At this point, the tunnel is in a standby state, where power has been shut off to the conveyor and heating elements, but the lights and controller are using minimal power. Shutting off the main power switch to the Off position shuts off main power to the tunnel and the design of the switch allows for lockout tagout by means of a padlock (not provided by Eastey, but must be provided by your company in accordance with your company's lockout/tagout rules and procedures). Disconnect power from electrical energy input and follow the lockout/tagout rules and procedures developed by your company.

Be sure to follow your company's lockout/tagout procedures for the Eastey VST Value Series Shrink Tunnel and all equipment connected to it, for example, the VSA Automatic L-Sealer and infeed conveyor or coding/marking or printing equipment, in accordance with your company's lockout/tagout procedures.

Note: Lockout mechanism(s), padlock(s), and identification tag(s) are the responsibility of your company in accordance with your company's lockout/tagout rules and procedures, and are not provided by Eastey.

Safety Precautions

Before installing, operating or servicing this equipment, please read the following precautions carefully:

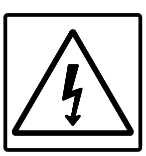
- Always disconnect electrical power before attempting maintenance for any electrical or moving parts, following the Lockout/Tagout best practices as governed by your company and OSHA. Do not place hands, head, or any part of the body inside the confines of the machine unless the mechanism is securely fastened and the electrical supply is shut off and all sources of energy have been neutralized and locked out/tagged out in accordance with your company's lockout/tagout best practices.
- Do not tamper with electrical wiring. Use only the specified power-supply cable. Use only licensed electricians to check or repair electrical wiring.
- In order to prevent damage to the machinery or injury to personnel, do not increase the factory settings on either the electrical or mechanical overload safety devices. Do not operate a machine if such modifications have been made.
- Keep hands away from moving conveyors, rollers, and moving parts. Conveyor belts that have become worn or frayed can be hazardous and should be replaced promptly.
- Never operate this or any moving equipment without all covers and guards in place. The internal mechanism of most packaging machinery contains numerous shear, pinch, and in-running nip points, many of which are capable of causing severe injury and permanent disfiguration.
- To minimize the potential for personal injury, always be sure that the machine operators and others working on the machinery are properly trained in the correct

usage of the equipment and properly instructed regarding the safety procedures for operation.

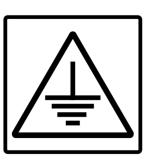
- Tunnel sides and conveyor surfaces can become very hot during and after use. Keep hands away while in operation and use caution if the machine has been running recently. Allow the machine to cool to ambient temperature in accordance with the special notes about the tunnel shutdown sequence and in accordance with your company’s lockout/tagout rules and procedures.
- Do not make any modifications to either the electrical circuitry or the mechanical assemblies of this machinery. Such modifications may introduce hazards that would not otherwise be associated with this machinery. Eastey will not be responsible for any consequences resulting from such unauthorized modification. Do not operate a machine if any modification has been made.
- This equipment is designed for indoor operation in a typical clean, dry factory environment. Do not operate the machine in any extremely wet or oily environment that may exceed operating specifications. Outdoor use is not recommended.
- The use of certain types of plastic films in sealing and/or shrink-wrapping equipment may result in the release of hazardous fumes due to degradation of the film at high temperatures. Before using any plastic film in this equipment, the manufacturer or supplier of the film should be contacted for specific information concerning the potential release of hazardous fumes. Adequate ventilation should be provided at all times.
- Keep combustible materials away from this equipment. The equipment may be a source of ignition.
- Do not wear loose clothing such as ties, scarves, jewelry, etc. Long hair should be pulled back and/or covered while operating this machine.

Explanation of Symbols

Caution sign or Safety Alert symbol. Indicates caution, be alert, Your safety is involved. Knowledge of safe operation is required. Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury or damage to equipment or nearby property.



Electrical hazard. Indicates caution, electrical shock hazard. Allow only a trained electrician to open the door or cover of the electrical panel or box. Shut off electrical power before attempting to open or work on the electrical box, junction boxes or other electrical components of the unit.



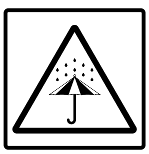
Ground symbol. Indicates ground. Use Class-3 (lower than 1000) cable to ground to earth. Incomplete grounding may lead to electrical shock.

Caution! Hot surface. The surface indicated may become very hot during normal operation. Keep fingers, hands, and exposed skin away from hot surfaces to avoid burns. Allow hot surfaces to cool to ambient room temperature before performing service.

Caution! Moving parts. Moving parts can crush fingers or hand. Keep hands and fingers away from moving parts in area indicated to avoid injury.

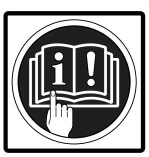
Caution! Pinch point entanglement. Pinch point hazard exists in area indicated. Shut down the machine before performing maintenance, repair, or adjustment.

Caution! blade. Hazard exists for cutting fingers or hand. Keep hands and fingers away from sharp blades in area indicated to avoid injury.



Moisture hazard. Keep Equipment dry. This equipment is designed for indoor operation in a typical clean, dry factory environment, protected from rain and moisture. Do not operate the machine in any extremely wet or oily environment that may exceed operating specifications.

Eye protection. Wear eye protection. Use protective equipment whenever circumstances require or when required by regulation or law. Wear safety glasses when operating or servicing this machine.



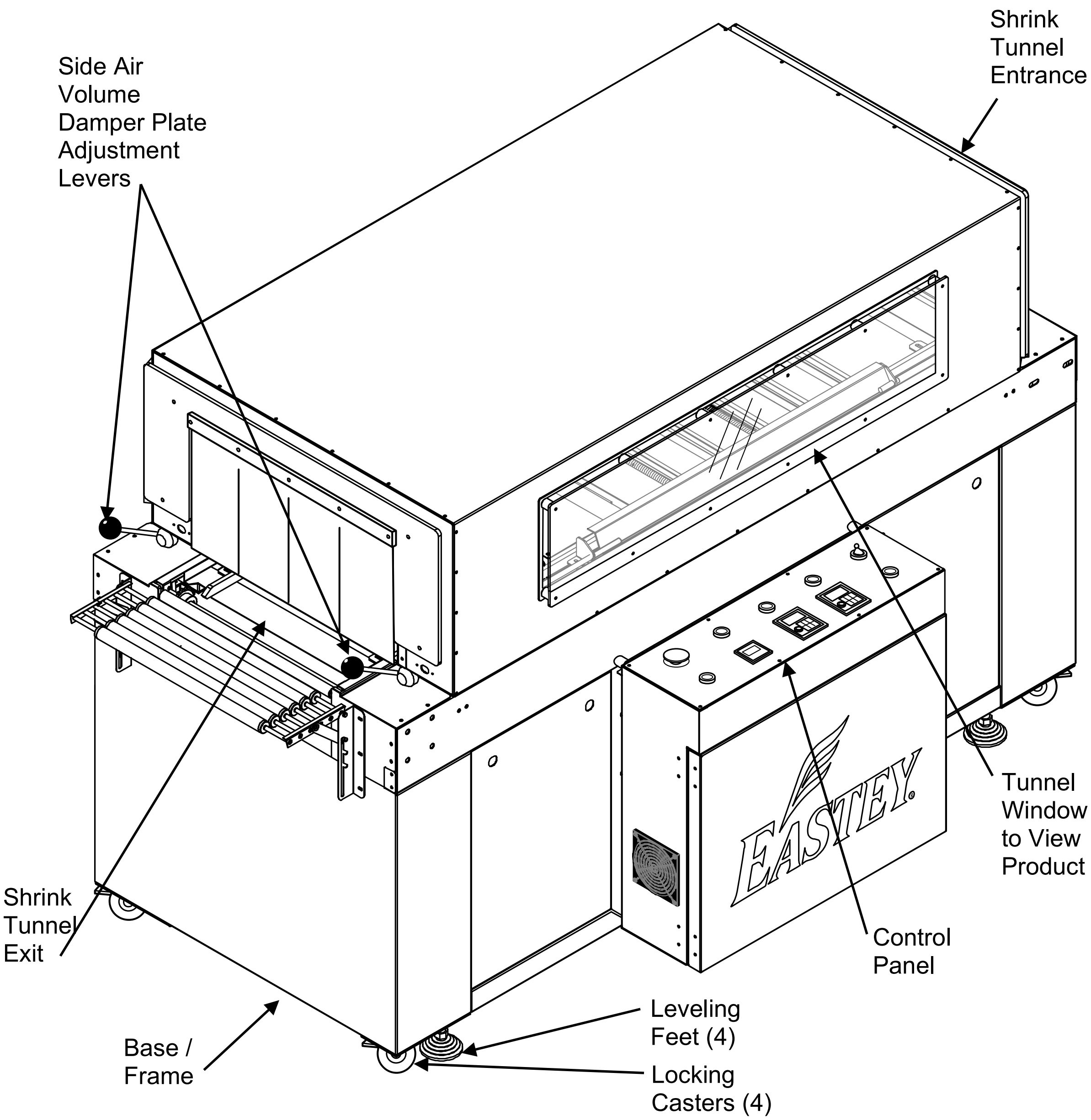
Refer to this User Guide for important safety information and operating instructions to set up, operate, adjust, and maintain this Automatic Case Erector.

Warning symbol. Indicates a hazardous situation which, if not avoided could result in death or serious injury.
A warning indicates a situation or condition potentially more severe than indicated by a caution message but not imminent as a danger message.

This symbol is associated with warnings for conditions as shown below.

Introduction

Eastey VST1710 Shrink Tunnel Overview

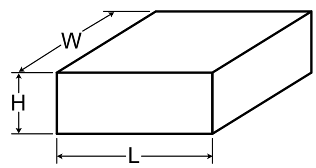


Specifications

Model VST1710-69-LRV2

Machine Dimensions	WIDTH (A) = 41.0 in. (1041 mm) HEIGHT (B) = 49.5 in. (1257 mm) LENGTH (C) = 78.0 in. (1981 mm)
Chamber Dimensions	WIDTH (D) = 18.0 in. (45.7 mm) HEIGHT (E) = 10.0 in. (254 mm) LENGTH (F) = 59.0 in. (1499 mm)
Conveyor Speed	0 – 100 ft./min. (0-30 m/min.)
Conveyor Width	18.0 in. (457 mm)
Conveyor Length	70.0 in. (1780 mm)
Conveyor Height	34.0 in.–37.5 in.(684 mm–953 mm)
Standard Power Requirements	220V 3 phase 30 Amps 50/60 Hz 15 kW Total Power

Machine Weight	800 lbs. (363 kg)
Ship Weight	900 lbs. (408 kg)
Heater Temperature	68°F -
Maximum Product Dimensions	11.81 in ×



Explanation of Model Numbers

- VST = Value Series Tunnel.
- 17 — First two digits indicate the nominal chamber opening width in inches: 17 inches.
- 10 — Remaining two digits indicate the nominal chamber opening height in inches: 10 inches.
- 69 — Tunnel length is approximately 69 inches.
- LR = Live Roller — Indicates that the conveyor is a live roller conveyor.
- V2 — Voltage and Phase. V2 = 220 VAC three phase. The VST1710-60-LRV2 is configured for 220 VAC three phase standard.

Voltage and Phase Designator Meaning

Voltage / Phase Designator	Volts	Amps	Phase	Frequency	Total Power
V2	220	30	3φ	50/60 Hz	15 kW

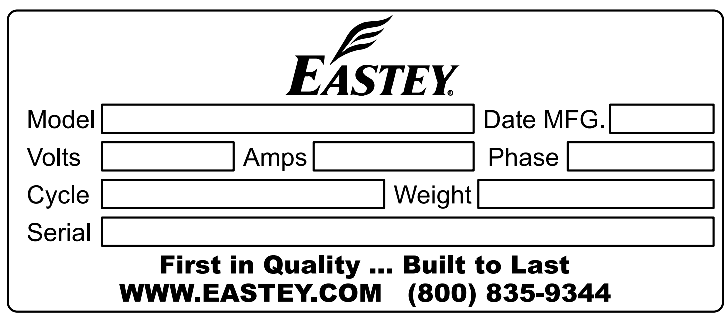
Standard features

- Designed to shrink most polyolefin (POF) shrink films
- Live roller conveyor with silicone coated rollers provides a smooth finish
- 35W heater with adjustable temperature control

- Tunnel temperature range between room temperature and 365°F (185°C)
- High velocity blower motors circulate air volume inside tunnel
- Variable air flow and air velocity for a variety of products and applications
- Tunnel window allows user to view product as it passes through tunnel and make adjustments as needed
- High quality cotton insulation keeps heat inside tunnel and minimizes energy consumption
- Delayed cool down and over temperature protection
- Conveyor speed up to 100 feet per minute
- Heavy duty locking casters and leveling pads for transportation within plant
- Easy to use design requires minimal training, maintenance, and trouble free operation
- CE Certification

Machine Serial Number

The machine serial number can be found on the identification label on the side of the shrink tunnel base frame near the control panel.



The identification label displays the Model designator, Serial Number, and Electrical Power Rating requirements.

Record the Serial Number for future reference.

Note pertinent information on the serial plate, such as the machine air and electrical power requirements for the Auto L-Sealer.

Typical Applications

VST11710-59-LRV2 Value Series Visible Shrink Tunnel

Eastey VST1710 Shrink Tunnel can be used for shrink wrapping a wide range of products, limited only by package width and weight of contents. The shrink tunnel is designed to shrink seal most polyolefin shrink film.

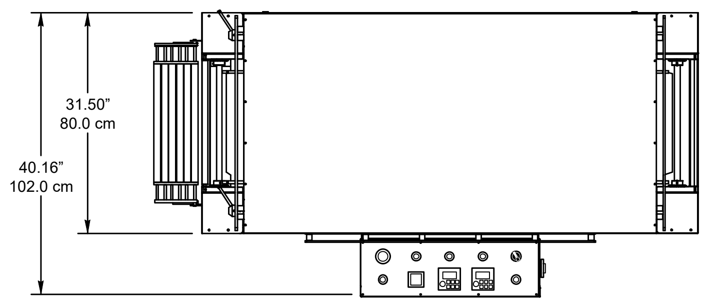
Eastey VST1710 Shrink Tunnel is particularly suitable for packaged goods of moderate size and weight, and are designed and manufactured with maximum compatibility for use with Eastey's full line of L-sealers and shrink wrappers.

Do NOT use the Eastey VST1710-59-LRV2 Shrink Tunnel for the following types of products:

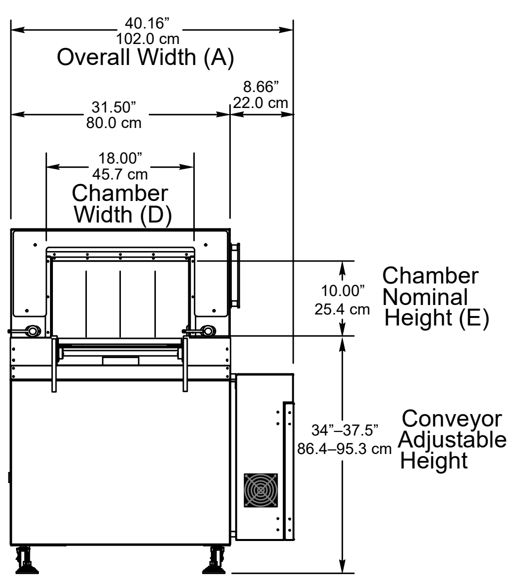
- Explosive Products
- Flammable Products
- Hazardous Products
- Wet Products or Corrosives
- Products that are heavier or larger than allowed by the machine specifications

Do not operate the Tunnel in any extremely wet or oily environment that may exceed operating specifications. This equipment is designed for indoor operation in a typical clean, dry factory environment protected from rain and moisture.

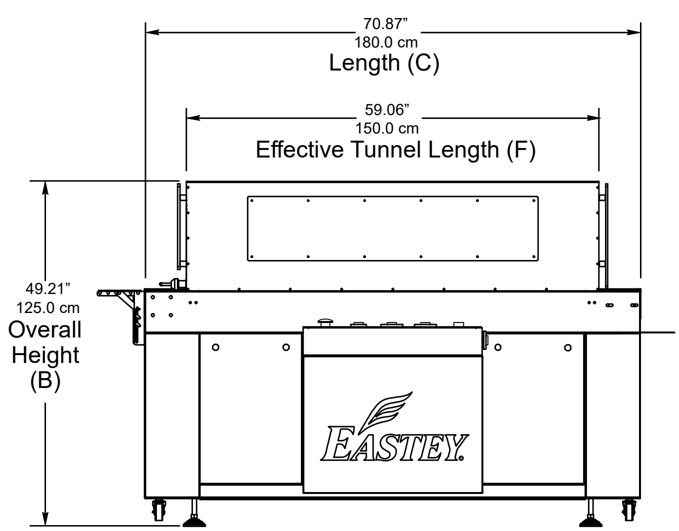
Dimensions



Top View



Exit End View



Front (Operator Side) View

Unpacking

Thoroughly inspect the equipment and packaging immediately on arrival.

Carefully remove the outer protective shipping wrapper. Inspect the machine for any damage that may have occurred during transit. If goods are received short or in damaged condition, it is important that you notify the carrier's driver before they leave your company and insist on a notation of the loss or damage across the bill of lading. Otherwise no claim can be enforced against the transportation company. Please note that a copy of this document is attached to the outside of every crate.

If concealed loss or damage is discovered, notify your carrier at once and request, **insist**, on an inspection. This is absolutely necessary. A concealed damage report must be made within ten (10) days of delivery of shipment.

Unless you do this, the carrier will not entertain any claim for loss or damage. The agent will make an inspection and grant a concealed damage notation. If you give the transportation company a clear receipt for the goods that have been damaged or lost in transit, you do so at your own risk and expense.

All claims must be filled within **five** (**5**) months of the delivery date or the carrier will not accept them.

We are willing to assist you in every reasonable manner to help you collect claims for loss or damage. However, this willingness on Eastey's part does not make Eastey or its parent or related companies responsible for collections or claims or replacement of equipment damaged or lost in transit.

Loading and Unloading Instructions

- ☐ The machine is fully crated on pallets.
- ☐ Use a forklift with adequate capacity to lift the machine from the pallet.
  (Forklift extensions may be required to repack equipment.)

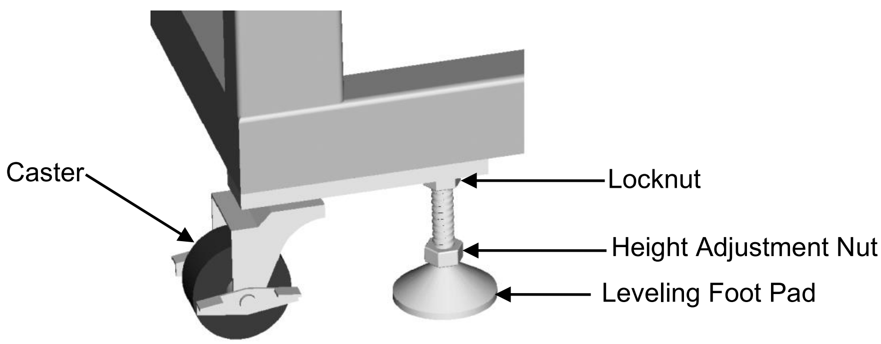
Installation

Carefully unpack the outer carton and shipping material. Although the exterior of the shrink tunnel is coated with a custom two-part epoxy finish that resists scratching, avoid denting, scratching, or otherwise damaging the oven exterior.

Lift the machine up and off of the shipping pallet.

WARNING: The VST1710 is heavy and may require a forklift, floor crane, or several people to move the machine safely. Use proper equipment and properly trained personnel when lifting the VST1710 to ensure it is secure and will not shift while being moved off the shipping pallet.

With the machine no longer on the pallet, raise the leveling feet by loosening the lock nuts under the frame and then adjusting the height adjustment nuts so that the machine can be rolled freely on its casters.



Roll the machine to the desired location with the required electrical power source available. With the machine in its correct place, use a wrench to turn the height adjustment nuts until the machine is level, is at the right height to connect with adjacent equipment, and the casters no longer touch the floor. Tighten the lock nut to lock the machine in position.

Make sure the electrical wiring is adequate to provide the required voltage. If the voltage provided is too low, the equipment will not operate correctly.

Location Requirements

When installing the shrink tunnel please be aware of the following considerations:

1. Integrated into the correct part of the production line.
2. Close to appropriate power supply.
3. Flat, level surface. The leveling feet can be used to ensure that the machine itself is level.
4. Easy Control Panel access.
5. Conveyor or packing table height.
6. Alignment with packaging line.
7. Bright, dry place – avoid dark, damp locations.
8. Not facing the ventilation system, which can cool the inside of the machine, reducing its effectiveness.
9. Provision should be made for finished exiting packages. For example, a table or bin where packages that have been sealed will be placed until they can be picked up or moved out.

When the shrink tunnel has been moved to its location, use the leveling legs to level the conveyor and adjust it to its final height. The leveling feet should be lower than the casters so that the machine can no longer roll.

A power cord to the main electrical disconnect switch (with optional electrical plug) should be installed by a licensed electrician.

Refer to instructions in the following section for instructions to power up or shut down the machine.

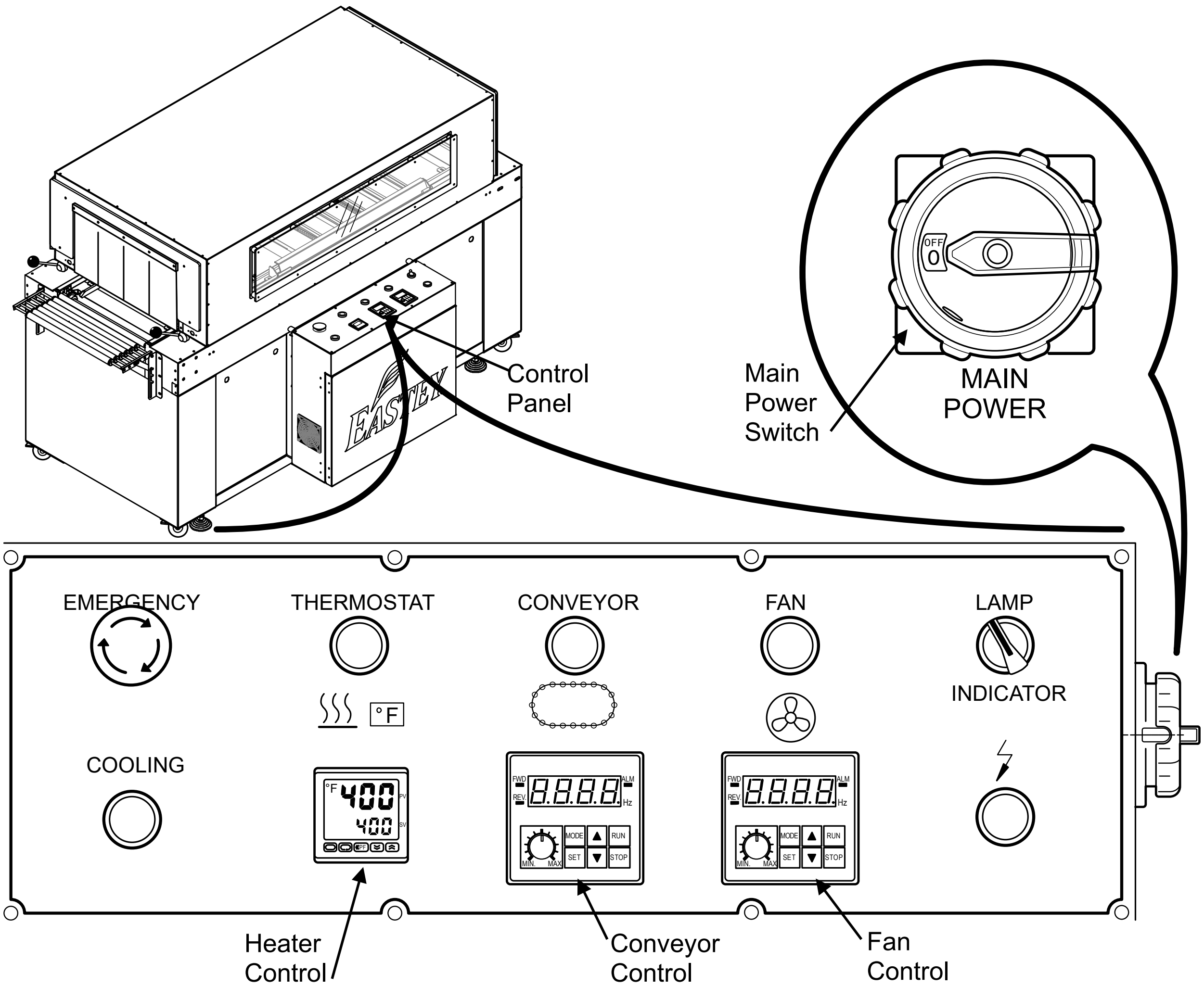
Operation

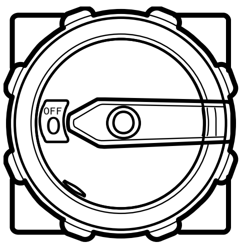
CAUTION: Only persons who have been trained in the operation of the shrink tunnel should be allowed to operate the machine.

Three main variables for operation of the VST1710 are temperature, conveyor speed, and fan speed or air flow. Generally, the conveyor speed is set to match the speed of the rest of the production line. The heat and fan speeds are then adjusted to work with the established conveyor speed. A faster conveyor speed usually requires higher temperature to achieve the desired shrink. Different label materials also require different temperatures.

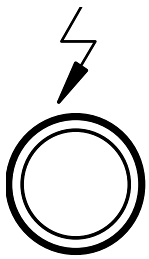
Control Panel

The Control Panel is located on the operator's side of the machine at a convenient height just below the tunnel observation window.





Main Power Switch — Use this switch to turn main power to the shrink tunnel on or off. (0 is Off / 1 is On). When the power is on, the green power lamp (ϟ) at the lower-right of the Control panel will illuminate green. The Main Power switch has a feature whereby it can be locked in the 0 Off position. Be sure to read and follow the lockout/tagout rules and procedures developed by your company for the Eastey VST1710-59-LRV2 Value Series Shrink Tunnel and all equipment attached to it, for example, Eastey VSA1825-TKV1 Value Series Auto L-Sealer.



Power Indicator – The Power Indicator lamp at the lower right of the Control Panel will illuminate green when the Main Power switch has been switched to the On (1) position and there is power to the machine.

CAUTION! **When the power is turned on be aware of tunnel hot surfaces and moving belt.**

E-Stop – In the event of an emergency, press down the large red mushroom shaped E-Stop button. This brings the system to a halt in a way to avoid an unsafe condition or damage to the machine or product.

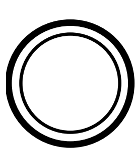
Pressing the E-Stop will stop automatic operation of the machine and set the machine to manual operation. Clear all conditions that required activation of the E-Stop before returning the machine to automatic operation.

⚠	**WARNING:** Machine components and items inside will still be hot. Wear heat-resistant gloves and use caution to avoid burns.

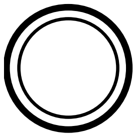
⚠	**WARNING:** Do not restart the machine until the situation that triggered the emergency stop has been addressed and resolved. Failure to follow this directive can result in injury or property damage.

⚠	**ATTENTION:** This button should only be used for emergencies. Do not use for routine stops. Instead, perform a normal shutdown procedure.

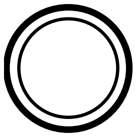
Once the problem has been resolved, turn the E-Stop button clockwise (in the direction of the arrows) to reset it.



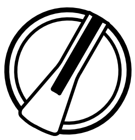
Thermostat – The Thermostat button turns on the heaters and enables the Heater Control for setting the heat tunnel internal temperature. More information about operation of the Heater Control is provided later in this section.



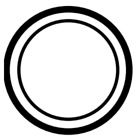
Conveyor – The Conveyor button turns on the conveyor and enables the Conveyor Control for setting the conveyor speed. More information about operation of the Conveyor control is provided later in this section.



Fan – The Fan button turns on the fan and enables the Fan Control for setting the fan speed. The fan works to distribute heat from the heaters to help regulate the tunnel internal temperature. More information about operation of the Fan Control is provided later in this section.



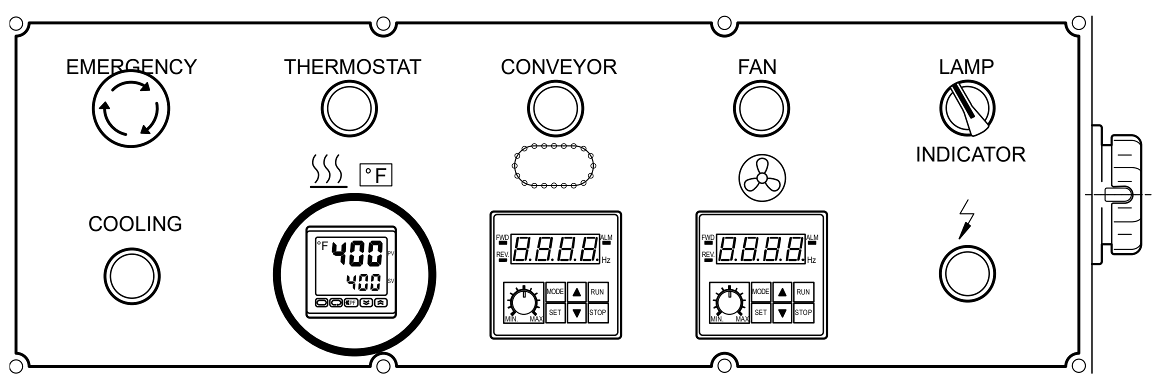
Lamp Indicator — The switch labeled Lamp Indicator, located at the top right corner of the control panel, operates the lights inside the hood of the heat tunnel illuminating the product conveyance zone, so shrink sealed packages can be observed as they are carried by the conveyor through the shrink tunnel.



Cooling – Use the cooling button to initiate the cooldown procedure for the shrink tunnel. Initiate the cooldown procedure and allow the cooldown to complete before shutting down the shrink tunnel

Temperature Controller

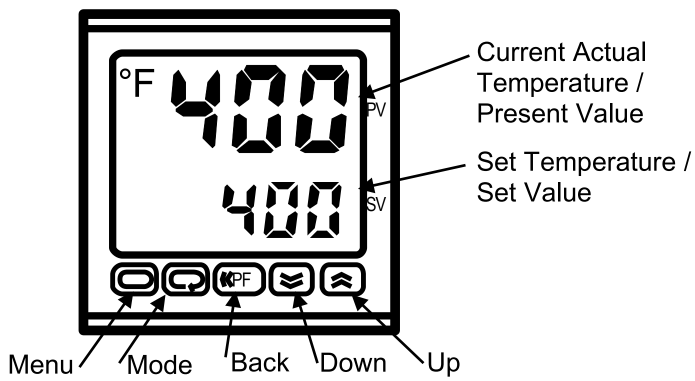
The temperature controller controls the temperature of the heating rods in the heating zone inside base of the machine in the conveyor loop. The heating rods heat the air inside the base of the tunnel and the heated air is allowed to rise or blocked by the damper plates along the front and rear sides of the tunnel.



After pressing the Thermostat Button to turn the heaters on, use the Temperature Controller to set and monitor the temperature of the tunnel. All settings on the Temperature Controller that require the Menu and Mode buttons have already been set at the factory and should not require adjustment by nonprofessionals.

⚠	**ATTENTION:** The conveyor must be moving once the heaters are on to prevent the conveyor from being unevenly heated, which can cause premature wear or damage to the conveyor.

Temperature Control Adjustment Instructions



1. Press the left-arrow (≪) button, up-arrow (⩓) button, and down-arrow (⩔) button, and a digit will begin to flash. The flashing digit indicates the digit whose value can be changed by pressing the down- (⩔) or up-arrow (⩓) buttons.
2. If necessary, press the left-arrow (≪) button to shift to the place of the digit that needs to be changed. (The flashing digit indicates the digit that will be changed.)
3. Press up (⩓) or down (⩔) as required to change the flashing digit to the required value.
4. Repeat instructions 2 and 3 above as necessary until all digits have been set to the required value, and then press the MODE button. No digits will be flashing and the new value entered is applied.

Adjusting the Cool-Down Temperature

SV, the Set Value (also sometimes called the set point), is factory set to 400°. If you change this value, you must make the following adjustments to ensure that your equipment will automatically shut down at 180°.

PV, the Process Value is the actual current temperature in the machine. PV and SV are mentioned in this procedure, but they are only displayed at the beginning of the procedure.

1. Press and hold the MODE button until SV1 is displayed.
2. Press the MODE button (do not hold it down) repeatedly to scroll through the menu until LOC is displayed.
3. Press and hold the left-arrow key. (ON will begin flashing.)
4. Press the down-arrow key. (ON will turn to OFF and OFF will be flashing.)
5. Press the MODE button. (OFF will stop flashing.)
6. Press MODE again. (This will bring you back to SV1.)

7. Press MODE again until AL1 is displayed.
8. AL1 is set to 250°. Optimum shutdown should be 150°.

   Factory settings are as follows.
   SV1 (Set Value, your set point) is set to 400°
   AL1 is set to 250°

   400° - 250° = 150°

9. Press MODE and scroll through the menu until LOC is displayed.
10. Press the left-arrow key. (OFF will begin flashing.
11. Press the up-arrow key. (OFF changes to ON and ON is flashing.)
12. Press MODE. (ON stops flashing.)
13. Press and hold the MODE key until PV and SV1 temperatures are displayed.

Default Temperature Controller Settings

Par5

USEr=HIGH

Pyd=100

PAr3

In-t=JIC.H

Unit=F

L-SC=32

H-SC=450

In-b=-4

H-t=50

PAr4

AL-1=PUCC

AL-2=PUCC

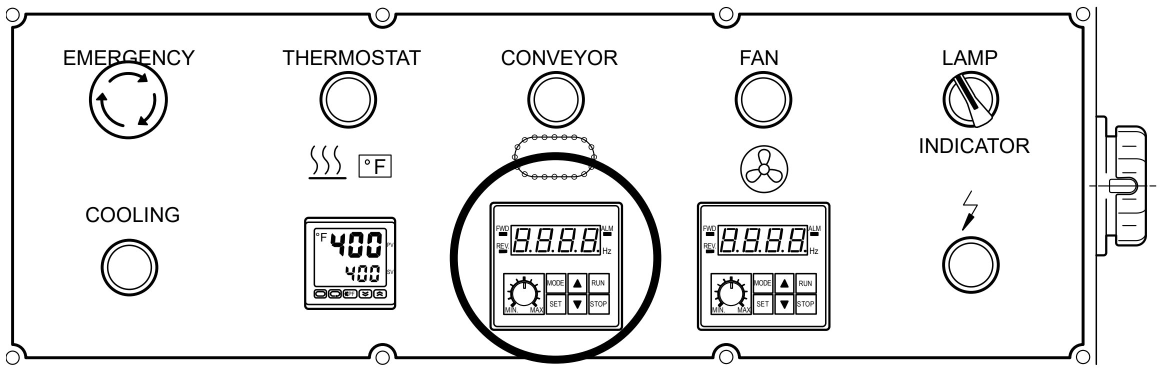
PAr1

AL1.H=150

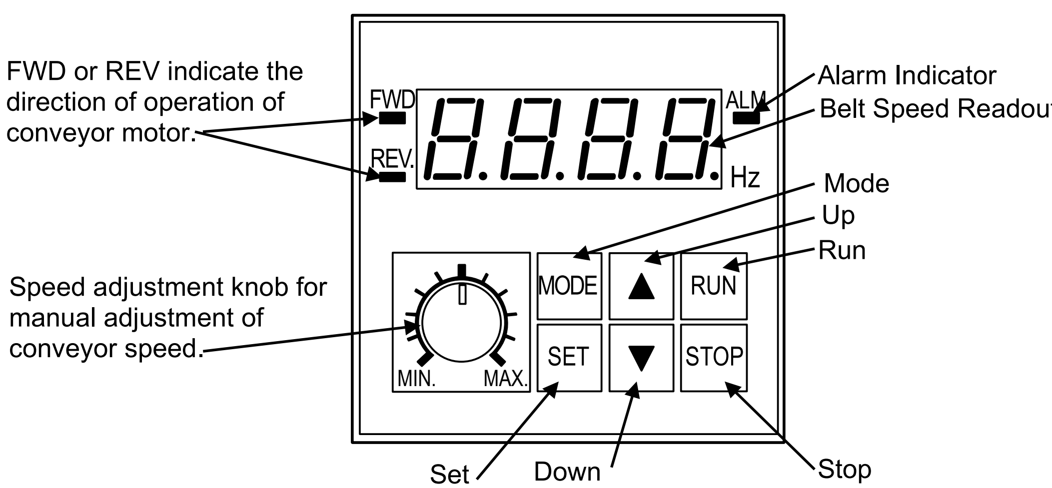
AL2.H=450

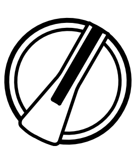
Conveyor Controller

The Conveyor Control and fan control are similar and use the same type of motor control module. The Conveyor Control controls the speed and direction of the conveyor and to manually run or stop the conveyor.



After the Conveyor button has been pressed to turn the conveyor on, the conveyor will run. The conveyor can be stopped by touching the Stop button on the conveyor controller or restarted by touching the Run button. Conveyor speed can be increased or decreased by adjusting the speed adjustment knob. (Speed is indicated in the digital numerical display.) All settings on the conveyor controller that require the Mode, Set, Up, and down buttons have already been set at the factory and should not require adjustment by nonprofessionals.

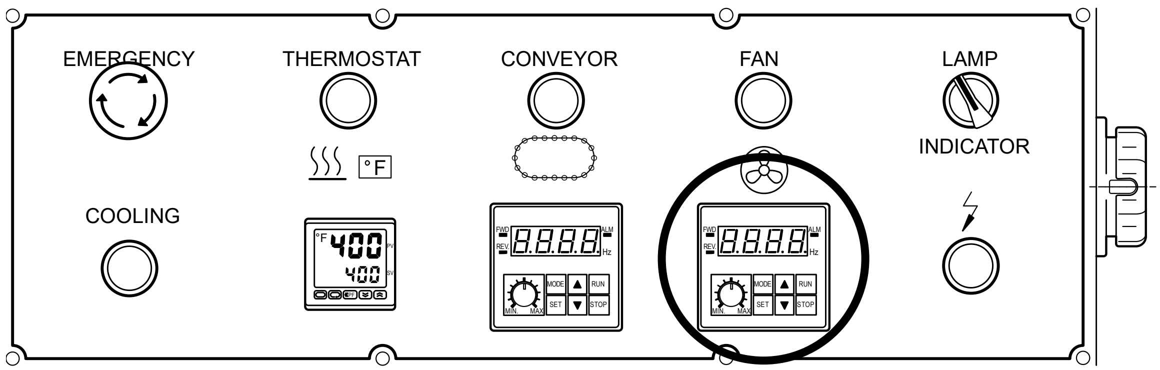




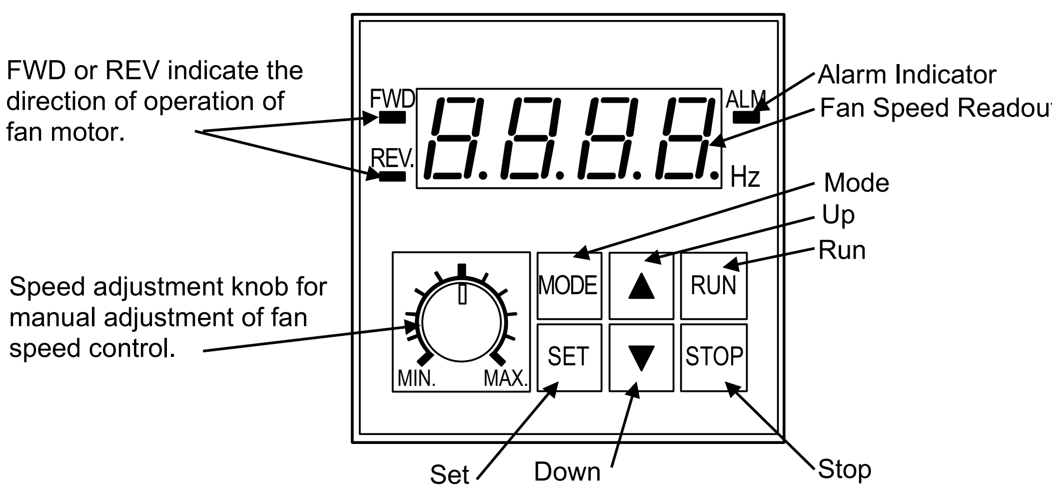
Lamp Indicator — To illuminate the tunnel interior and product conveyance zone to be able to see shrink-sealed packages through the observation window as they are transported by the conveyor through the shrink tunnel, turn the Lamp Indicator switch at the upper left of the Control Panel to the On position.

Fan Controller

The Fan Controller is similar to the conveyor controller and uses the same type of motor control module. The Fan Control controls the fan speed and direction and allows an operator to manually run or stop the fan.

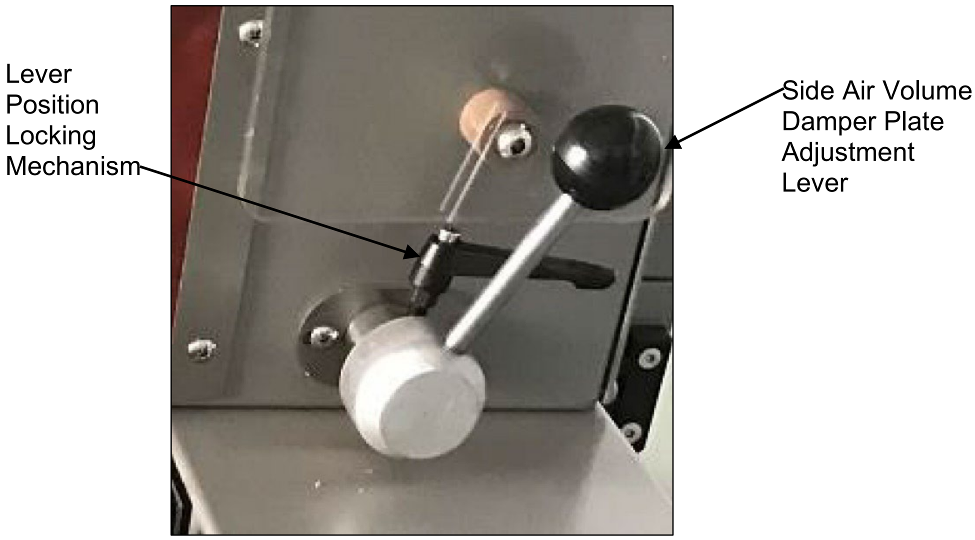


After the Fan button has been pressed to turn the fan on, the fam will run. The fan can be stopped by touching the Stop button on the fan controller or restarted by touching the Run button. Fan speed can be increased or decreased by adjusting the speed adjustment knob. (Speed is indicated in the digital numerical display.) All settings on the fan controller that require the Mode, Set, Up, and down buttons have already been set at the factory and should not require adjustment by nonprofessionals.

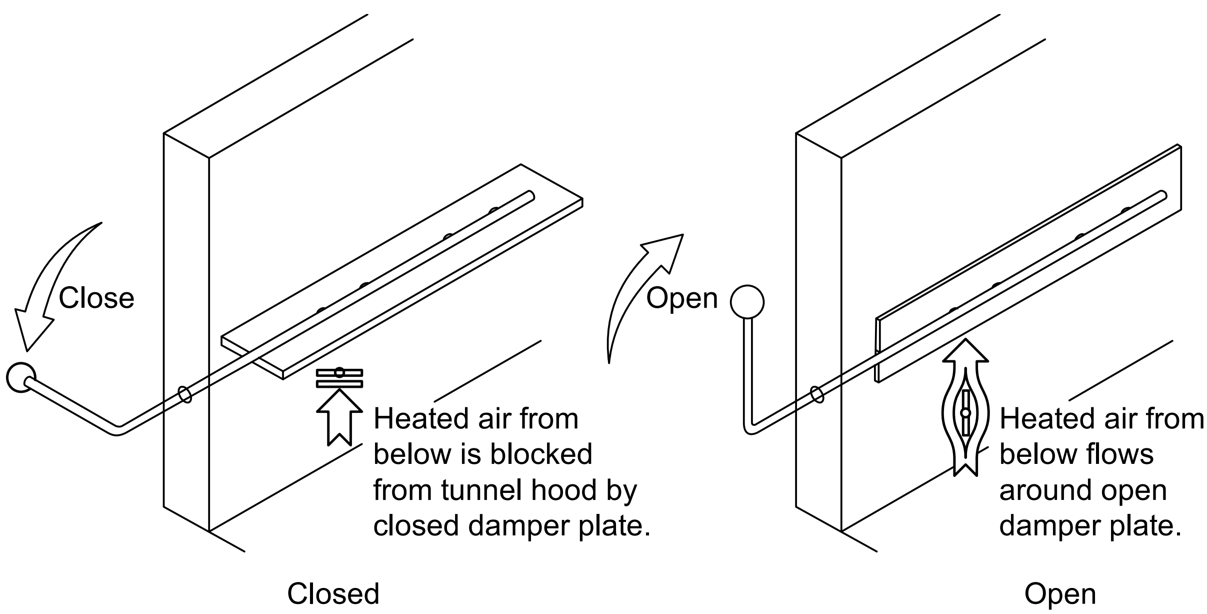


Side Air Volume Damper Adjustment Levers

On either side of the tunnel exit is a side air volume adjustment lever. The position of each lever is used to direct or restrict the flow of air heated below into the tunnel. To change the position of either side damper first loosen the locking mechanism, move the lever to the position that blocks or provides air flow as desired, and then retighten the locking handle back into its locked position to keep the new setting.



The simplified illustration below shows the effect of fully closed and fully open side air damper adjustment positions. When the handle is horizontal, the damper plate closes off the airway and heated air is blocked from entering the tunnel hood. As the handle is rotated to the vertical position, more heated air is allowed to rise from the heating zone into the tunnel hood and product conveyance zone. The plate position is adjustable from 0° horizontal to 90° vertical to provide the optimum air flow required for your application.



Before Turning Power On for the First Time

Before powering on the VST1710 for the first time, remove the net plate from the right side of the heat tunnel and then untie the straps tied to the conveyor chain. Then untie the wire strap on the main power cord, paying attention to the main voltage from the yellow label on the power cord. Remove any plastic wrapping from the side air volume adjustment dampers.

When preparing to shrink-seal packaged product, start the shrink tunnel approximately 10 minutes beforehand to allow the tunnel time to heat up to the set value (SV) temperature.

Startup

1. Turn the main power switch 90° clockwise to the On position.
2. Press the Thermostat Button to turn on the heaters. If needed, input the correct set temperature for the desired product (see “Temperature Controller” on page 19).

   WARNING: The VST1710 tunnel, its conveyor, and anything passing through the tunnel can become hot enough to cause severe burns once the heaters have been turned on. Do not touch potentially hot surfaces, and always use caution and wear heat-resistant gloves.

3. Press the Conveyor button to start the conveyor. If needed, input the correct conveyor speed for the desired product (See “Conveyor Controller” on page 24). Turn on the light inside the tunnel using the switch labeled Lamp to illuminate the conveyance zone to view product as it moves through the shrink tunnel.

   ATTENTION: The Conveyor must be moving once the heaters are on to prevent the conveyor from being unevenly heated, which can cause premature wear.

4. Allow approximately 10 minutes until the actual temperature (PV) matches the set temperature (SV).
5. Once the tunnel has reached the set temperature, turn on the fan. If needed, input the correct fan speed (see “Fan Controller” on page 24).
6. If needed, set the correct position for the side air volume adjustment dampers (see “Side Air Volume Damper Adjustment Levers” on page 25) to ensure proper airflow.
7. The machine is now ready for use.

Testing

Each product and shrink material will have its own ideal settings. Before beginning a run of an untested product, perform a few test samples to get the settings correct.

Conveyor speed will generally be dictated by the speed of the conveyor feeding product sealed by the L-sealer into the shrink tunnel. Adjust the speed of the tunnel conveyor to the speed at which product is fed into it see “Conveyor Controller” on page 24). Adjust the heater temperature to best work with the speed of the conveyor (see “Conveyor Controller” on page 24). Always wait for the tunnel actual temperature (PV) to match the set temperature (SV) before running a test.

Additional factors that will impact the quality of shrink are fan speed (see “Fan Controller” on page 25) and positioning of the side air volume dampers (See “Side Air Damper Adjustment Levers” on page 26).

Once the ideal settings are achieved for that product, shrink material, and conveyor speed, make notation of it so that testing is not needed the next time that product is run.

Shutdown

Shutdown should not be done by simply turning off the Main Power Switch, as this can damage the machine. Conveyor components must be kept moving as the machine cools down. If the conveyor sits in one position while it is still hot, it will cause uneven heating of the conveyor and result in damage to the conveyor.

ATTENTION: Damage to the VST1710 caused by incorrect shutdown procedure is not covered under the warranty.

To shut down the VST1710, perform the steps below in order.

1. Press the Cooling button to initiate the cool-down sequence and press the the Thermostat Button to turn off the heaters.

   WARNING: The VST1710 tunnel, its conveyor, and anything passing through the tunnel will still be hot enough to cause severe burns even after the heaters have been turned off. Do not touch potentially hot surfaces, and always use caution and wear heat-resistant gloves.

ATTENTION: The Conveyor must continue to be moving even after the heaters have been shut off to prevent the conveyor from being unevenly heated, which can cause premature wear.

2. Allow the machine to continue running. When the temperature inside the tunnel reaches its preset cool-down temperature (see “Temperature Controller” on page 21), the conveyor and fan will automatically turn off. The default cool-down temperature is 180 °F (82 °C).

WARNING: Unless the cool-down temperature has been set significantly lower than the default, the components of the VST1710 and anything inside the tunnel will still be hot enough to cause burns even after cool-down has been reached. Do not touch potentially hot surfaces, and always use caution and wear heat-resistant gloves.

3. The machine is now in a standby state.

4. If this is a routine shutdown and not being performed for lockout/tagout purposes (for example, if the machine is being shut down after daily operation and production will resume the next day), it is not necessary to turn off the Main Power Switch, and doing so can cause needless premature wear of the Main Power Switch.

5. If shutdown is being performed for lockout/tagout, **DO** turn off the Main Power Switch once the machine is in its standby state, and follow your organization’s lockout/tagout procedures

Maintenance

Unless specifically stated otherwise, shut down the shrink tunnel and all connected equipment and disable input power before performing any adjustments, maintenance, or repairs. Be sure to follow your company's lockout/tagout rules and procedures for the VST1710 Shrink Tunnel and all equipment connected to it (for example, L-sealer or sleeve wrapper or coding/marking or printing equipment). Refer to "Shutdown" on page 28 to allow for proper cooldown of belts and internal components for shutting down.

⚠	**WARNING:** For all procedures in this section, follow lockout/tagout practices unless otherwise specifically stated. Failure to follow lockout/tagout practices can result in serious injury and/or equipment damage and may void the warranty.

Note: Lockout mechanism(s), padlock(s) and identification tag(s) are the responsibility of your company in accordance with your company's lockout/tagout rules and procedures and are not provided by Eastey.

To aid in the high reliability of the shrink tunnel, inspect the machine regularly and perform maintenance as required. In the most general terms, keep the machine clean and free of excessive dust, stray film particles, and other contaminants, and lubricate the machine as required. Disconnect electrical power before making any repairs or mechanical adjustments. Be very careful when servicing or adjusting this equipment. If in doubt, stop and obtain qualified help before proceeding.

Lubrication

Pay attention to the roller parts of the conveyor chain and joint hole of the conveyor chain lugs and the load shaft. These parts should be kept lubricated regularly using high-temperature lubricating oil that is high temperature resistant above 572° F (300° C).

Cleaning the Mesh Cover of the Heat Tunnel

When the shrink film or other foreign matter accumulates on the mesh cover of the heat tunnel, it needs to be disassembled and cleaned so as to not adversely affect the air flow from the heating zone into the conveyance zone and cause poor shrinking results.

1. Remove the roller and stainless steel plates on both sides.
2. Remove several iron supports from the conveyor belt and move the removed iron supports to the net cover. Unscrew the screws that fasten the net cover on both sides and remove the net cover to clean it.
3. After cleaning the net cover, reinstall the parts and components to their original locations, one by one.

Power Cord

Check the power cord periodically for wear, especially if it is exposed to traffic.

Conveyor Maintenance

Preventative Conveyor Maintenance

1. Lubricate the conveyor's roller chains every 60 hours with a high-temperature oil. The oil should be rated for temperatures of at least 572 °F (300 °C). Use a brush to apply lubricant while running the conveyor slowly.
2. Inspect the rollers of the conveyor regularly to ensure that no scrap pieces of film are wrapped around the rollers to cause sticking packages. If needed, clean the rollers.

Monthly Conveyor Maintenance

1. Check and clean the intake screens.
2. Check the condition of the silicone covering on the rollers. Repair or replace as necessary.
3. Check and clean the motor-to-conveyor drive chain. Adjust tension as needed.
4. Check for loose fasteners. Tighten as necessary.
5. Check that the conveyor speed can be adjusted.
6. Check for overall wear on the rollers and starter rollers. Repair as needed.
7. Check the condition of all warning and instruction labels. Replace as necessary.

Cleaning the Conveyor Rollers

1. Run the conveyor until the affected rollers are inside the heat chamber to heat the film residue and soften the film so it will clean easier.
2. Advance and then stop the conveyor so the heated rollers are out of the chamber and accessible for cleaning.

   CAUTION: Be sure that the conveyor is stopped before putting fingers or anything else in the conveyor area.

3. Remove film residue. If necessary, use a dull blunt-edged tool. Do not use any sharp instruments, as this may result in damage that requires replacing the roller covering.

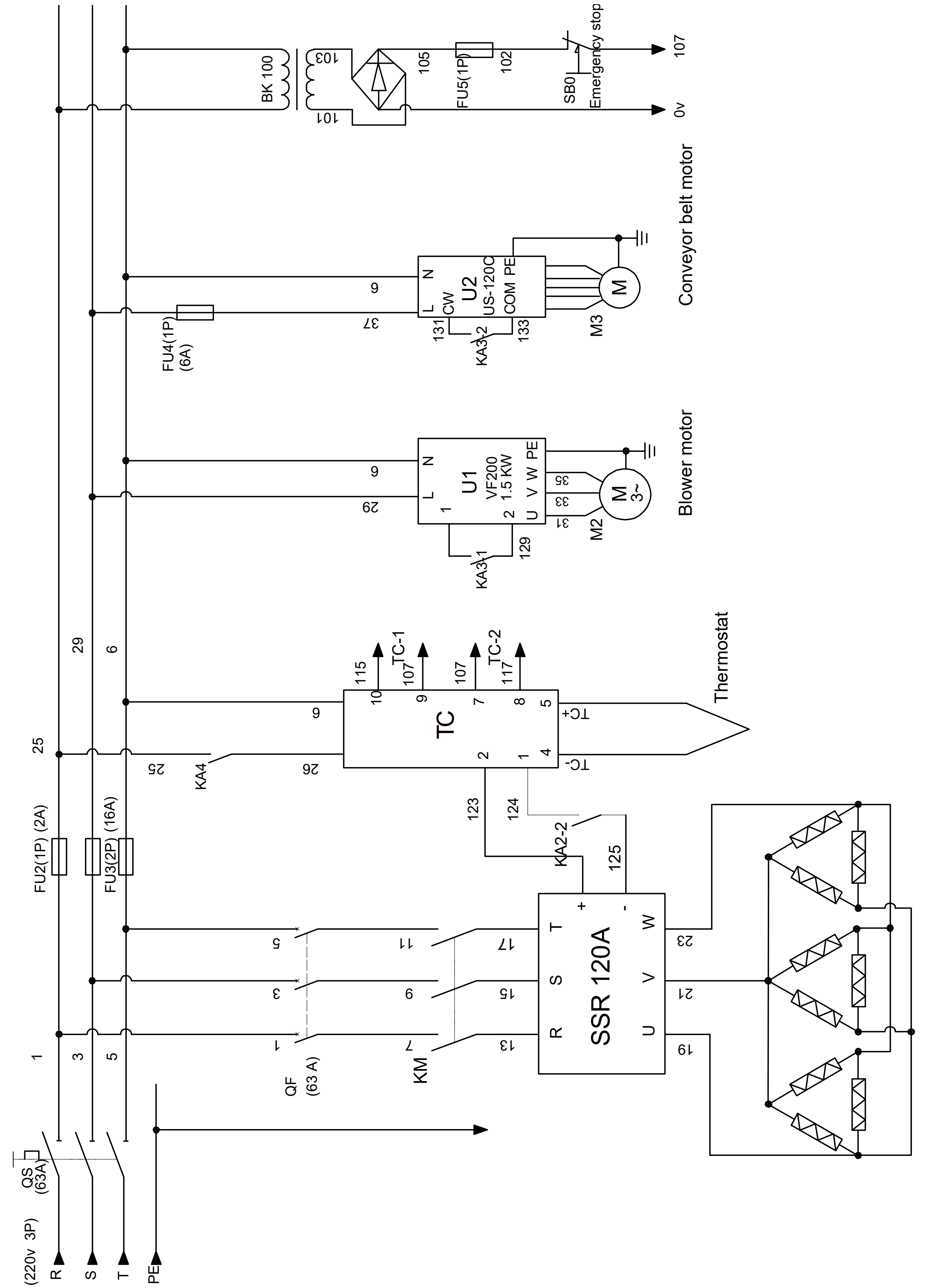
Troubleshooting

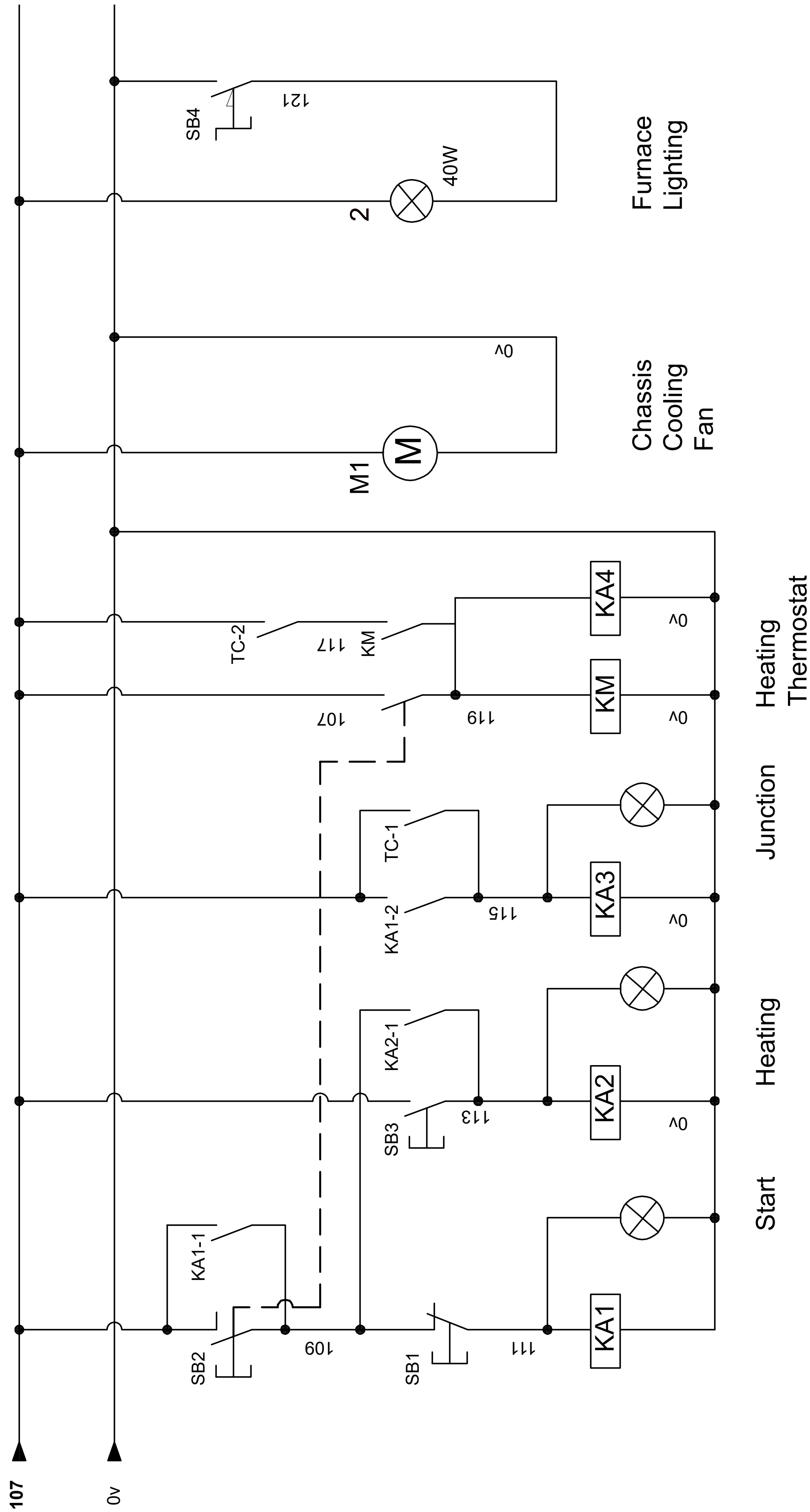
This section addresses problems that may be encountered when using the Eastey VST1710.

WARNING: Do not attempt to disassemble or make repairs or modifications to any equipment beyond those described below. Doing so can damage the equipment, can make it unsafe, and will void the warranty.

Problem	Possible Cause	Solution
Machine will not turn on.	Main power is off.	Turn the Main Power Switch on
	The fuse is disconnected.	Replace the fuse.
	The Emergency Stop Button has been pressed.	Address the emergency and press the Reset Button.
	Phase sequence error.	Change the input power phase line.
Conveyor belt does not move.	Conveyor belt tension is too high.	Adjust the conveyor belt tension screw.
	Damaged motor or gearbox	Replace the motor or gearbox.
	Tension of the drive chain is too high.	Adjust the tension of the drive chain.
	Conveyor control fault.	Replace the conveyor control.
Low tunnel temperature	Fuse is disconnected.	Replace the fuse.
	Heating element is burned out.	Replace the heating element.
	Heater control is damaged.	Replace the heater control.
	Temperature sensor is damaged.	Replace the temperature sensor.
High tunnel temperature.	Heater control is damaged.	Replace the heater control.
	Temperature sensor is damaged.	Replace the temperature sensor.
Poor shrinkage.	Temperature is too high or too low.	Adjust the temperature.
	Conveyor is too fast or too slow.	Adjust the conveyor speed.
	Insufficient or excessive pores in the packaged product.	Adjust product pores.
	Insufficient or excessive airflow.	Change position of side air volume adjustment levers.
	Blockage of airflow.	Clear the blockage.
	Voltage is too low.	Connect to appropriate electrical supply.
Fan is not running.	Fan motor is overheated.	Check the fan motor and adjust.
	Fan control is damaged.	Replace the fan control.
	Fan motor is unresponsive.	Replace the fan motor.

Schematics

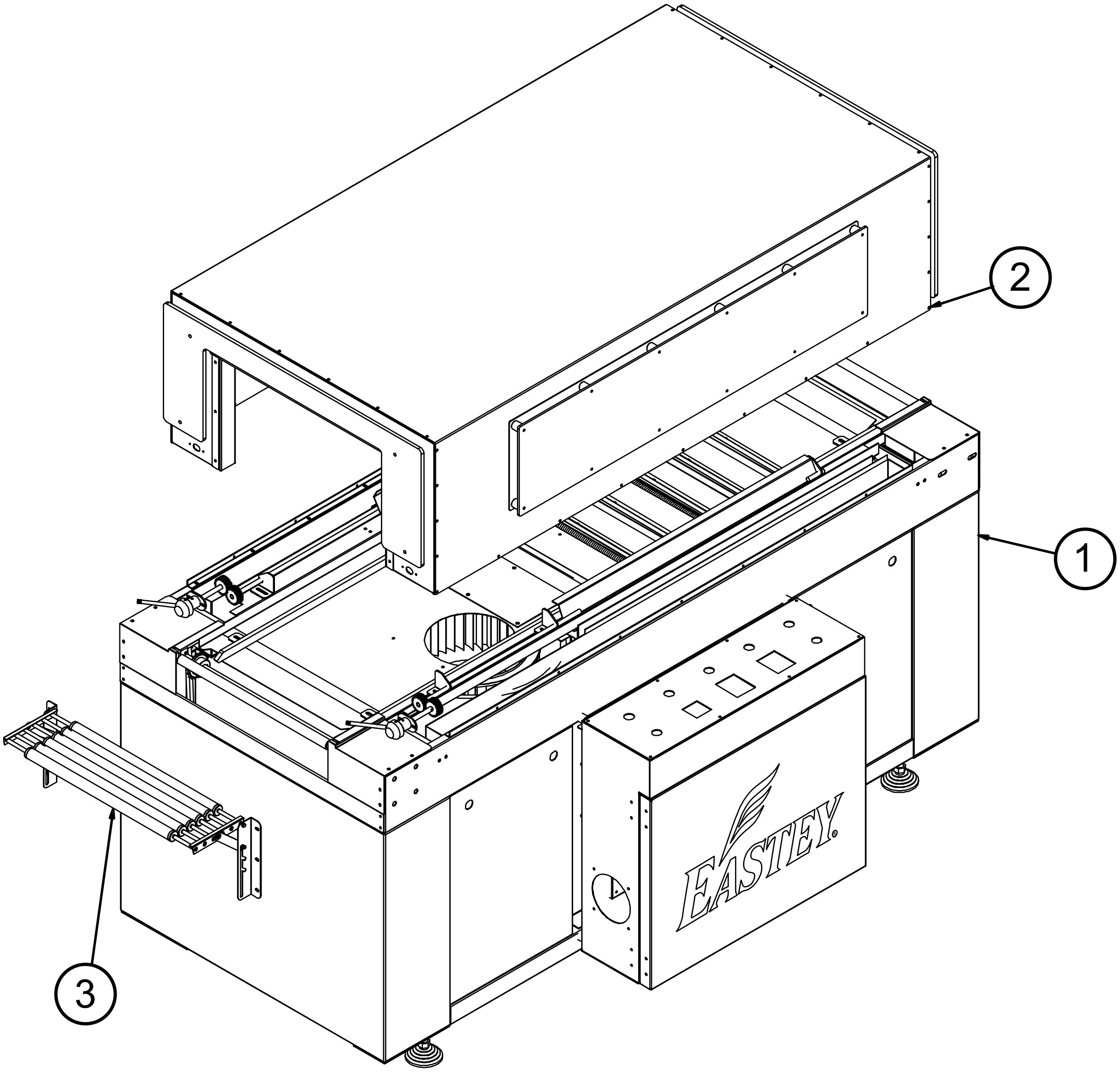

BK 100
103
101
105
FU5(1P)
102
SB0
Emergency stop
107
0v
Conveyor belt motor
U2
US-120C
L
N
CW
COM
PE
131
KA3-2
133
M3
M
FU4(1P)
(6A)
37
9
Blower motor
U1
VF200
1.5 KW
U V W PE
35
33
31
M2
3~
129
KA3-1
29
Thermostat
TC
TC-1
TC-2
115
107
117
TC+
TC-
25
26
KA4
123
124
125
KA2-2
FU2(1P) (2A)
FU3(2P) (16A)
SSR 120A
R S T
U V W
13
15
17
19
21
23
1
3
5
7
11
QF
(63 A)
KM
QS
(63A)
(220v 3P)
R
S
T
PE


107
0v
SB4
121
2
40W
Furnace Lighting
0v
M1
M
Chassis Cooling Fan
TC-2
117
KM
KA4
0v
107
119
KM
0v
Heating Thermostat
TC-1
KA1-2
115
KA3
0v
Junction
KA2-1
SB3
113
KA2
0v
Heating
KA1-1
SB2
109
SB1
111
KA1
Start

Parts List

VSA1710 Value Series Shrink Tunnel Assembly

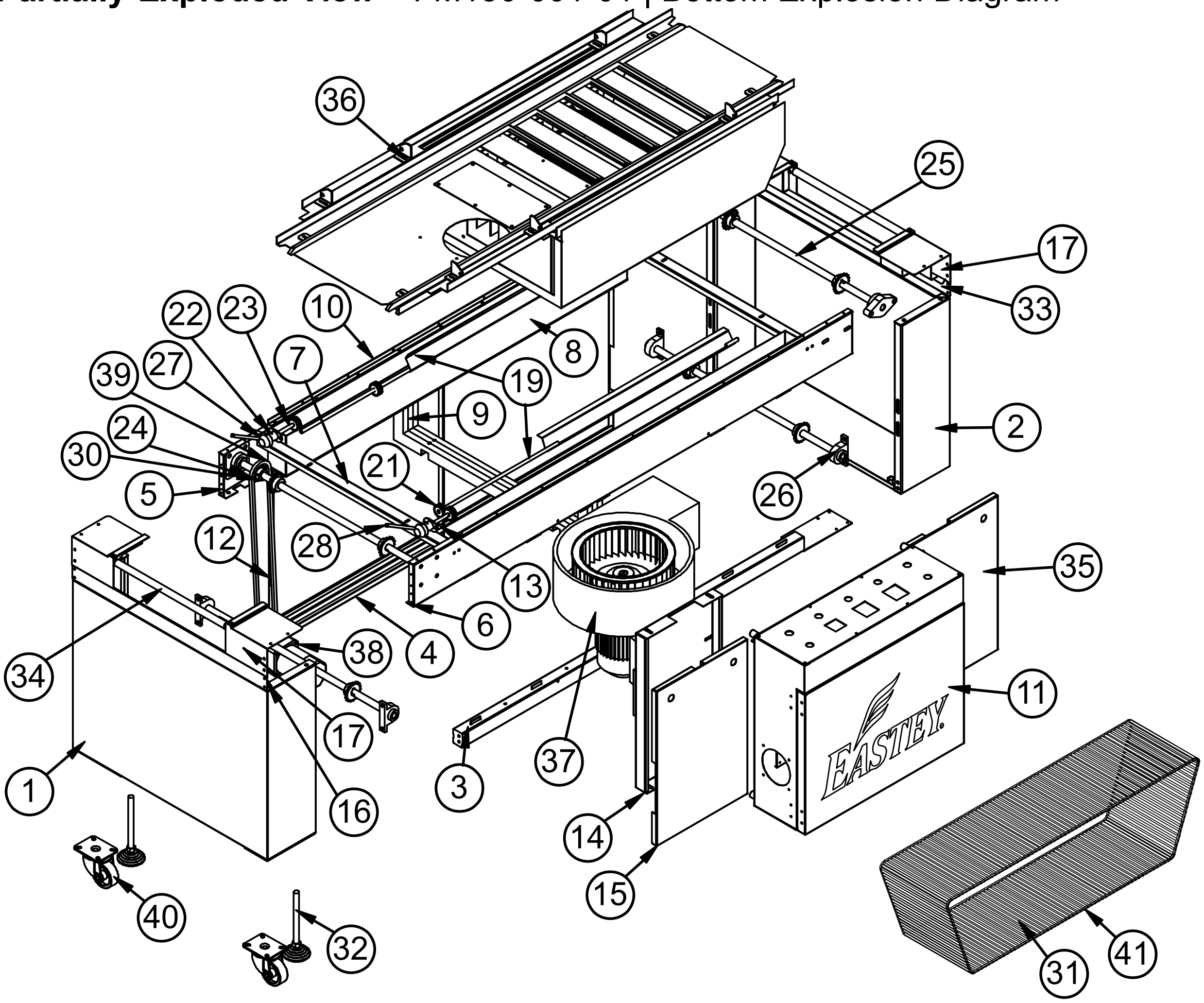
Partially-Assembled View – CT150-000-00 | CT150 The Explosion



Item	Part Number	Description	Reference	Quantity
1	SUBV6000	Shrink Tunnel Base | Bottom Explosion Diagram	FM150-001-01	1
2	SUBV6001	Shrink Tunnel Hood | CT150 Upper	FM150-001-04	1
3	SUBV6002	Transition Roller Assembly | Transition Device	ZZ00142	1

SUBV0001 Shrink Tunnel Base Assembly

Partially-Exploded View – FM150-001-01 | Bottom Explosion Diagram

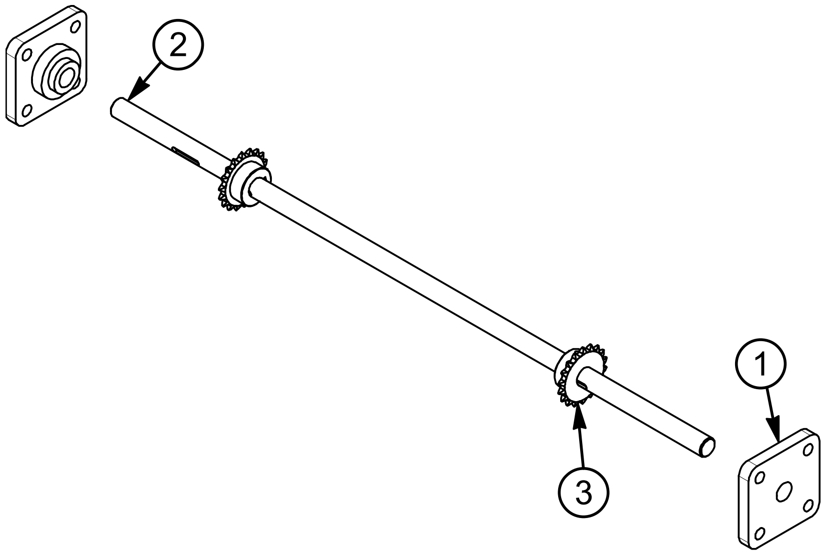


Item	Part Number	Description	Reference	Quantity
1	VST00005	Exit Side Base	FM150-01-02	1
2	VST00006	Infeed Side Base	FM150-01-01	1
3	VST00007	Front Bottom Cross Beam	FM150-01-03	1
4	VST00008	Rear Bottom Cross Beam	FM150-01-04	1
5	VST00009	Rear Frame Rail	FM150-01-05	1
6	VST00010	Front Frame Rail	FM150-01-06	1
7	VST00011	Heater Box Mount	FM150-01-07	2
8	VST00012	Inner Insulation Cover Plate	FM150-01-09	2
9	VST00013	Heater Box Support	FM150-01-10	2
10	VST00014	Housing Fixed Angle Iron	FM150-03-05	2
11	SUBV6009	VST1710 Electrical Box	FM150-001-02	1
12	VST00016	Left Rear Keeper	FM150-01-17	1
13	VST00017	Right Rear Keeper	FM150-01-18	1
14	VST00018	Fan Motor Mount Plate	FM150-01-21	1

Item	Part Number	Description	Reference	Quantity
15	VST00019	Left Front Keeper	FM150-01-19	1
16	VST00020	Conveyor Motor Mount	FM150-01-22	1
17 18	VST00021	Exit Roller Mount	FM150-01-23	4
19 20	VST00022	Air Baffle / Damper	FM150-02-12	2
21	VST00003	Baffle Spur Gear	FM150-02-13	2
22	VST00023	Shaft Collar	FM150-02-14	2
23	SUBV6008	VST1710 Baffle Gear Shaft	FM150-002-01	2
24	SUBV6003	VST1710 Exit Shaft Assembly	FM150-001-001	1
25	SUBV6004	VST1710 Infeed Shaft Assembly	FM150-001-002	1
26	SUBV6005	VST1710 Belt Tensioner Shaft Assembly	FM150-001-003	2
27	VST00015	Air Flow Adjustment Handle	FM150-02-16	2
28	VST00028	Air Flow Adjustment Shaft	FM150-02-17	2
29	VST00025	Sprocket	FM150-01-27	1
30	VST00026	Sprocket	FM150-01-26	1
31	VST00027	Conveyor Roller Shaft	FM150-03-22	168
32	VST00091	M16 Threaded Foot	D80M16-150	4
33	VST00029	Insulation End Cover	FM150-01-08	2
34	SUBV6006	VST1710 Transition Roller	ZZ001148	2
35	VST00030	Right Front Keeper	FM150-01-20	1
36	SUBV6007	VST1710 Heating Zone Assembly	FM150-001-03	1
37	VST00031	Blower Fan	CT150W019P	1
38	VST00032	Conveyor Motor	CT150W020P	1
39	VST00033	Chain 08B	CT150W022P	1
40	VST00034	Caster Wheel	D80-150	4
41	VST00035	08B Chain with Attachments	CT150W021P	6

SUBV6003 Exit Roller Assembly

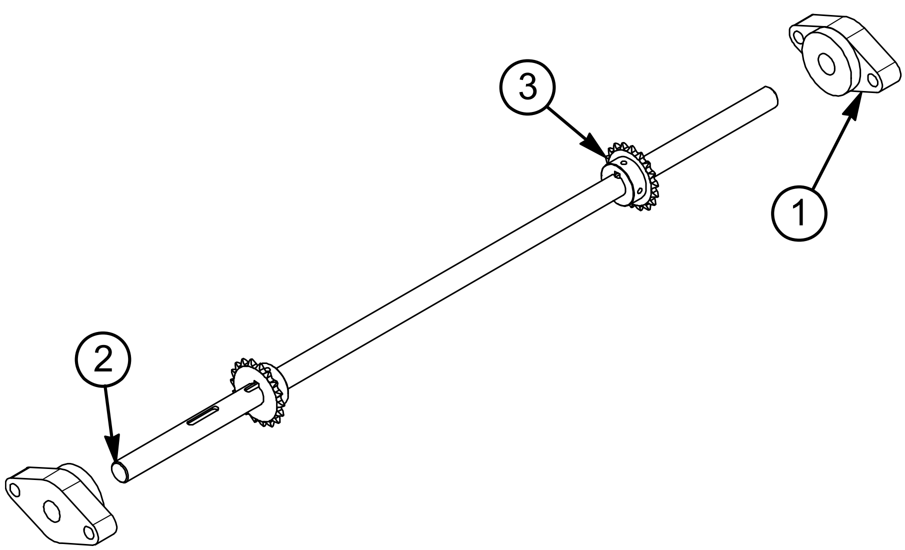
Partially-Exploded View – FM150-001-001 | CT150 Export Roller



Item	Part Number	Description	Reference	Quantity
1	VST00036	Square Bearing With Housing	UCF204	2
2	VST00002	Conveyor Drive Shaft	FM150-01-25	1
3	VST00001	Sprocket	FM150-01-24	2

SUBV6004 Entrance Roller Assembly

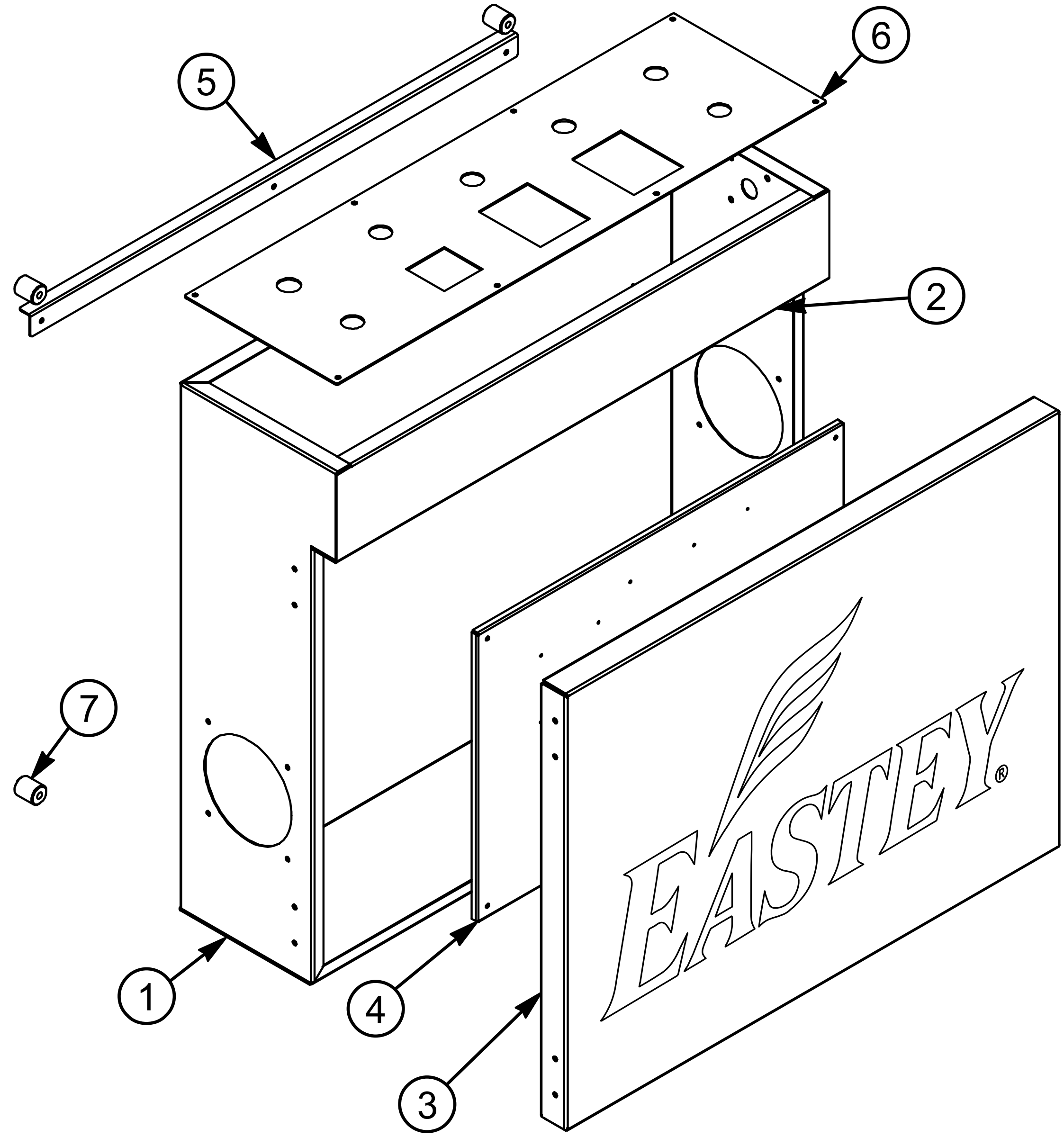
Partially-Exploded View – FM150-001-002 | CT150 Entrance Roller



Item	Part Number	Description	Reference	Quantity
1	VST00037	Bearing With Housing	UCFL204	2
2	VST00002	Conveyor Drive Shaft	FM150-01-25	1
3	VST00001	Sprocket	FM150-01-24	2

SUBV6009 Electrical Box Assembly

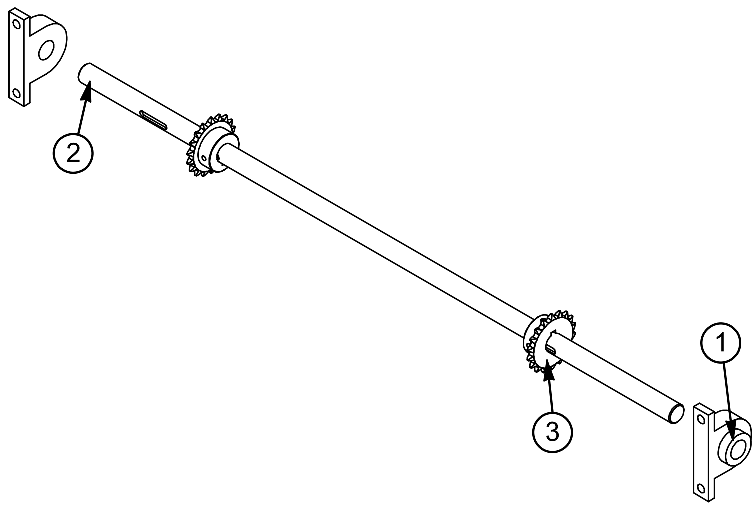
Exploded View – FM150-001-02 | CT150 Electrical Box



Item	Part Number	Description	Reference	Quantity
1	VST00092	VST Enclosure	FM150-01-11	1
2	VST00038	Enclosure Front Plate	FM150-01-12	1
3	VST00039	Enclosure Door	FM150-01-13	1
4	VST00040	Enclosure Panel	FM150-01-14	1
5	VST00041	Enclosure Mount Bracket	FM150-01-15	1
6	VST00042	Enclosure Top Plate	FM150-01-16	1
7	VST00004	Spacer	FM150-03-16	4

SUBV6005 Tension Shaft Assembly

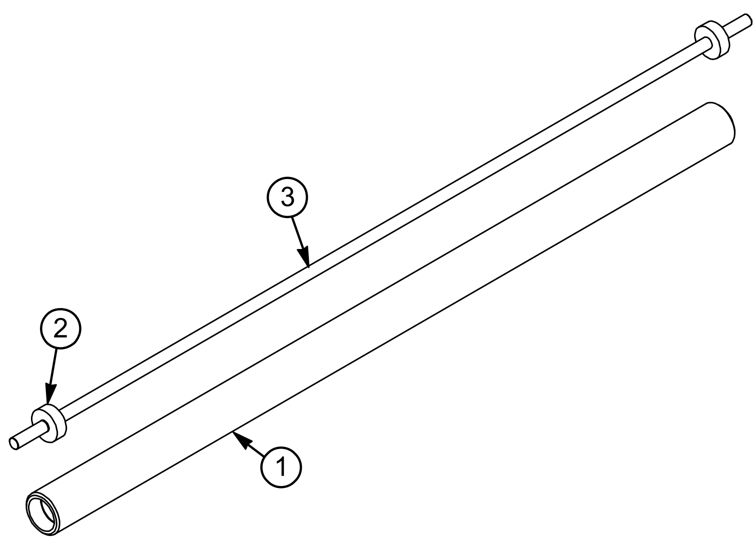
Partially-Exploded View – FM150-001-003 | CT150 Tension Shaft



Item	Part Number	Description	Reference	Quantity
1	VST00043	Bearing, Pillow Block 20M Shaft Dia.	KP004	2
2	VST00002	Conveyor Drive Shaft	FM150-01-25	1
3	VST00001	Sprocket	FM150-01-24	2

SUBV6006 Transition Drum Assembly

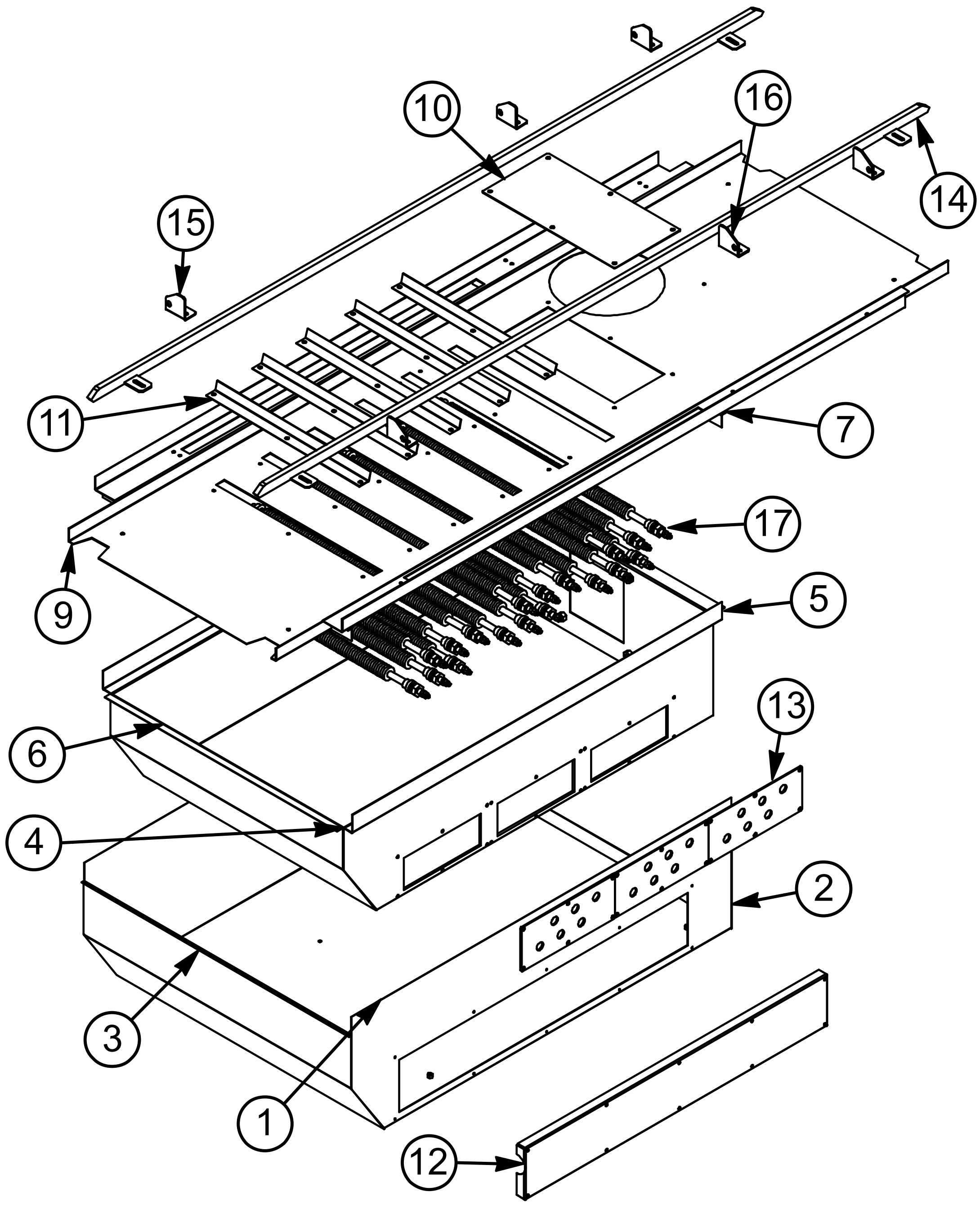
Partially-Exploded View – FM150-001-004 | CT150 Transition Drum



Item	Part Number	Description	Reference	Quantity
1	VST00060	Transition Roller	FM150-03-21	1
2	VST00061	606 Bearing	606	2
3	VST00062	Transition Roller Shaft	FM150-03-20	1

SUBV6007 VST1710 Heating Zone Assembly

Exploded View – FM150-001-03 | CT150 Heating Zone

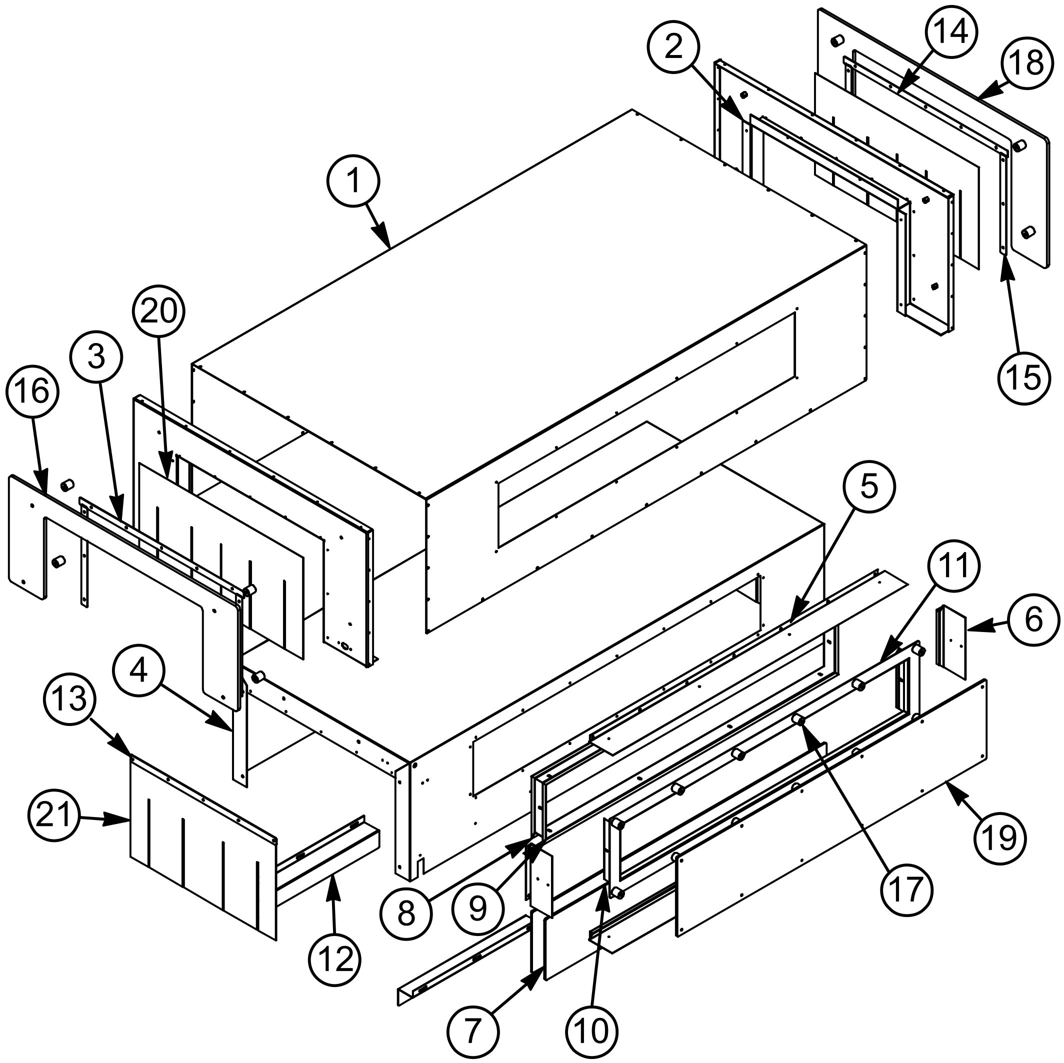


Item	Part Number	Description	Reference	Quantity
1	VST00093	Heater Box Outer Cover	FM150-02-01-01	1
2	VST00044	Heater Box Outer Side Plate	FM150-02-01-02	1
3	VST00045	Heater Box Outer End Panel	FM150-02-01-03	1
4	VST00046	Inner Heater Box Cover	SFM150-02-02-01	1
5	VST00047	Inner Heater Box Attached Plate 1	SFM150-02-02-02	1
6	VST00048	Inner Heater Box Attached Plate 2	SFM150-02-02-03	1

Item	Part Number	Description	Reference	Quantity
7	VST00049	Heater Box Support Angle	SFM150-02-02-04	4
8	VST00050	Air Flow Baffle	FM150-02-03	1
9	VST00051	Heat Duct Panel	FM150-02-04	1
10	VST00052	Adjustable Hole Cover	FM150-02-05	1
11	VST00053	Air Deflector	FM150-02-06	5
12	VST00054	Heater Element End Cover	FM150-02-07	1
13	VST00055	Heater Element Mount Plate	FM150-02-08	3
14	VST00056	Conveyor Rail	FM150-02-10	2
15	VST00057	Air Duct Clamp Bracket	FM150-02-11	3
16	VST00058	Air Duct Clamp Bracket (Symmetrical)		3
17	VST00059	Heater Element	FM150-02-18	9

SUBV6001 VST1710 Tunnel Hood Section Assembly

Exploded View – FM150-001-04 | CT150 Upper

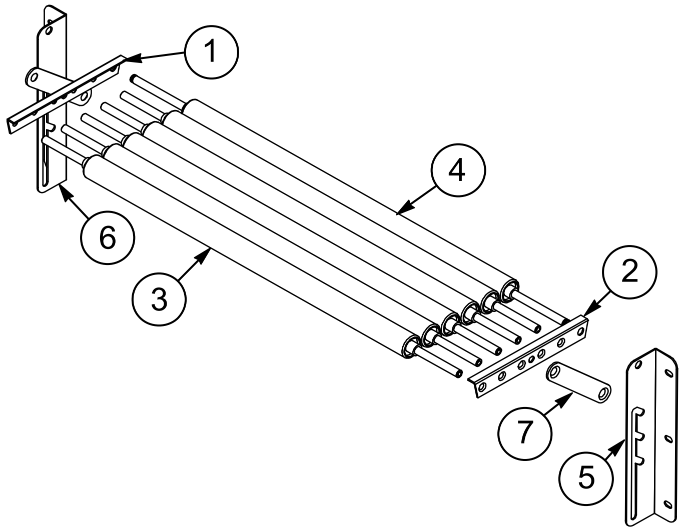


Item	Part Number	Description	Reference	Quantity
1	VST00063	VST1710 Hood	FM150-03-01	1
2	VST00064	VST1710 Infeed End Panel	FM150-03-03	1
3	VST00065	VST1710 Exit End Panel	FM150-03-02	1
4	VST00066	VST1710 Inner Hood	FM150-03-04	1
5	VST00067	Inner Tunnel Window Frame, Long	FM150-03-06	2
6	VST00068	Inner Tunnel Window Frame, Short	FM150-03-07	2
7	VST00069	Tunnel Window Glass	FM150-03-08	2
8	VST00070	Glass Partition, Long	FM150-03-09	2
9	VST00071	Glass Partition, Short	FM150-03-10	2
10	VST00072	External window glass platen	FM150-03-11	2
11	VST00073	External Window Frame Plate	FM150-03-12	1
12	VST00074	Air Duct Long Cover	FM150-02-09	2

Item	Part Number	Description	Reference	Quantity
13	VST00075	Curtain Inner Clamp Plate	FM150-03-13	2
14	VST00076	Curtain Outer Clamp Plate	FM150-03-14	2
15	VST00077	Curtain Side Clamp Plate	FM150-03-15	4
16	VST00078	Exit Shield	FM150-03-17B	1
17	VST00004	Standoff	FM150-03-16	20
18	VST00079	Infeed Shield	FM150-03-18	1
19	VST00080	Side Window Shield	FM150-03-19	1
20	VST00081	VST1710 Inner Curtain	FM150-02-20	2
21	VST00082	VST1710 Outer Curtain	FM150-02-19	2

SUBV6002 Transition Rollers Assembly

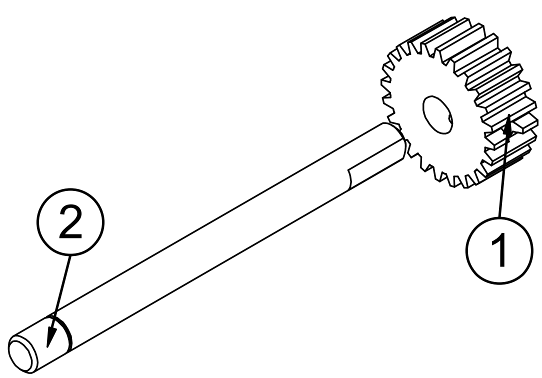
Exploded View – ZZ00142 | Transition Device



Item	Part Number	Description	Reference	Quantity
1	VST00083	Transition Roller Mount Angle, Rear	FM150-03-26	1
2	VST00088	Transition Roller Mount Angle. Front		1
3	VST00089	Transition Roller	FM150-03-23B	5
4	VST00090	Transition End Roller	FM150-03-24B	1
5	VST00084	Transition Roller Support, Front	FM150-03-28	1
6	VST00085	Transition Roller Support, Rear		1
7	VST00086	Support Link	FM150-03-27	2

SUBV6008 Baffle Spur Gear Assembly with Shaft

Exploded View – FM150-002-01 | CT150 Air Shaft



Item	Part Number	Description	Reference	Quantity
1	VST00003	Fan Plate Spur Gear	FM150-02-13	1
2	VST00087	Drive Shaft, Baffle	FM150-02-15	1

Warranty Statement: Shrink Packaging Equipment

This Warranty Statement Is Available Online

This Warranty Statement is also available from the Eastey Support Website in electronic format for web browsers and e-readers. Go to Engage Technologies.net >> Eastey >> Case Sealing & Shrink Packaging Equipment >> Warranty >> Shrink Packaging Warranty or scan the QR Code at right using the camera app on your mobile device to go directly to the online version of the most current version this Warranty Statement.

Warranty Statement

Eastey warrants that all of the products it ships will be in good working order and free from defects in material and workmanship for a period of two (2) years from the date of shipment by Eastey and will conform to the published specifications for that product. Purchased parts will be warranted for one (1) year.

Damage caused during transport is the responsibility of the carrier and is not covered under this warranty. All damages detected upon receipt of equipment should be reported immediately to the carrier and Eastey should be notified.

Warranty Period – Specific Items

Any moving or wear parts are covered for 180 days after the date of purchase. This includes items such as conveyor belt, silicone tubing (roller covering), end curtains, felt pad, bearings, and wear rails. The seal pad and fuses are consumable items and are not covered under warranty.

Repairs

All in-house repairs are rigorously tested for optimum operation and performance and warranted to be, under normal and proper use, free from defects in materials and workmanship for a period of 90 days from the date of service.

Shrinking Quality

Shrinking quality achieved in a given application is dependent on the film, product, installation, material handling, and the maintenance provided. Eastey makes no warranty that the shrinking quality achieved in an application will be the same as that achieved on a test piece in our demo facility.

Shipping Policy

Customer pays all incoming shipping charges for replacement components. If the item is defective and under warranty, Eastey will pay all return shipping charges via the least costly method. If expedited shipping is desired, the customer must furnish their shipping account number and shipping fees will be charged to that account.

Exclusions

Damage due to tampering, abuse, improper adjustment, electrical interference, or the use of non-approved components will void any and all warranties by Eastey and its distributors.

Warranty Verification

If you believe that a product may be defective and may be covered by warranty, obtain a Return Material Authorization number by calling our technical support number (toll free at 1-800-835-9344, or 763-428-4846 or Fax: 763-795-8867) or e-mail info@eastey.com. Based on the recommendation from Eastey technical support, replacement components may be shipped out via UPS Ground or similar method. If expedited shipping is desired, customer must furnish their shipping account and shipping fees will be charged to that account.

Customer is required to return the defective component to Eastey. If after 30 days, Eastey hasn't received the defective component, the customer will be invoiced for the replacement component. If the returned component is found to not be eligible for warranty, Eastey will contact the customer and the customer will be invoiced for the replacement component.

Warranty within 60 days of invoice

For warranty questions that take place within 60 days of the original invoice, Eastey will allow cross-shipment of a replacement component to an end-user customer or Eastey distributor. The customer will be invoiced for the replacement component 60 days after it ships. Upon receipt of the returned component, Eastey will evaluate it and issue credit where necessary.

For components that have been misused or externally damaged, Eastey will not issue credit, and will contact the customer to determine whether or not they want the component repaired and/or returned.

Warranty after 60 days of invoice

For warranty questions that take place more than 60 days from the original invoice, Eastey requires the end-user or Eastey distributor to return the component to Eastey for repair. Upon receipt of the returned component, Eastey will evaluate it and repair as necessary.

Components that fall within our warranty policy will be repaired normally within 5 business days of receipt and returned to the customer via standard ground shipping at Eastey's expense. If expedited shipping is required, the customer must furnish their shipping account number and shipping fees will be charged to that account.

For components that have been misused or externally damaged, Eastey will contact the customer to determine whether or not they want the component repaired and/or returned.

Warranty Eligibility

The warranty provided by Eastey will only be covered provided that:

- Equipment usage is proper and normal
- Equipment is still owned by the original buyer
- Equipment has been operated in accordance with generally approved practice and in accordance with Eastey’s specifications and instructions
- No repairs, alterations, or replacement have been made by others without Eastey’s prior written approval
- Genuine Eastey repair components are used during the warranty period

Limited Warranty

THIS WARRANTY SHALL NOT APPLY IF ANY MODIFICATION, ALTERATION OR ADDITION IS MADE TO THE PRODUCT WITHOUT EASTEY’S PRIOR WRITTEN APPROVAL. FURTHERMORE, THIS WARRANTY DOES NOT APPLY TO PRODUCT DEFECTS DUE TO MISUSE, ABUSE, NEGLECT, OR FAILURE TO FOLLOW THE RECOMMENDED PROCEDURES. ANY PRODUCT REPAIRED OR ALTERED BY PERSONS OTHER THAN AUTHORIZED EASTEY REPRESENTATIVES WILL NOT BE COVERED BY THIS WARRANTY. THIS WARRANTY DOES NOT APPLY TO CONSUMABLE ITEMS.

EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY, EASTEY MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED WITH RESPECT TO THE PRODUCT, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OR ANY OTHER MATTER. EASTEY SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES OF ANY DESCRIPTION WHETHER ARISING OUT OF WARRANTY OR ONTHER CONTRACT, NEGLIGENCE OR OTHER TORT, OR OTHERWISE. NO AGENT, EMPLOYEE, OFFICER, OR OTHER REPRESENTATIVE OF EASTEY HAS AUTHORITY TO BIND EASTEY TO ANY REPRESENTATION OR WARRANTY EXCEPT AS STATED HEREIN. UNDER NO CIRCUMSTANCES SHALL EASTEY’S LIABILITY HEREUNDER, FOR ANY REASON OR CAUSE EXCEED THE PRICE PAID TO EASTEY FOR THE PRODUCT.

Disclaimer of Damages

REGARDLESS OF WHETHER ANY REMEDY SET FORTH HEREIN FAILS OF ITS ESSENTIAL PURPOSE, IN NO EVENT WILL EASTEY BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES, INCLUDING LOST PROFIT OR LOST OPPORTUNITIES OF ANY TYPE ARISING OUT OF THE USE OR INABILITY TO USE

THESE PRODUCTS EVEN IF EASTEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Terms and Conditions

Eastey's Terms and Conditions of Sale are set forth separately at WWW.EASTEY.COM and are hereby incorporated by reference into this warranty statement as if fully set out within.

Customer Support

Eastey Technical Service

For help setting up or operating the ET Value Series Shrink Tunnels. please contact Eastey Technical Service at one of the numbers listed below.

Toll-Free Phone	800-835-9344
Phone	763-428-4846
Fax	763-795-8867
E-mail	info@eastey.com
Web	www.eastey.com

Thank you again for your purchase of Eastey products. We are pleased to be a part of your packaging needs.

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