

Mercury Compact DRYER

owners manual



Introduction

Congratulations on your purchase of the Workhorse Products Mercury Compact Dryer.

Check the crate for damage, **DO NOT** accept the crate if damaged due to improper handling during shipping. Report any damage to the carrier at once as well as Workhorse Products at **800-778-8779**.

Inspect the crate contents IMMEDIATELY while the carrier is still there. Our packaging has been carefully designed to handle normal shipping conditions. However, we cannot be responsible for damage by the carrier. Upon first sight of freight damage notify or point out to the driver and file your claim with the carrier, then notify us.



The Workhorse MERCURY INFRARED COMPACT CONVEYOR DRYER offers the space saving and power requirements needed for a small shop. While economically priced it provides faster production than just a spot dryer. The 115 volt unit is supplied with a NEMA L530 125V plug and requires a 30 AMP dedicated circuit. The 220 volt unit is supplied with a NEMA 6-15 250 volt plug and requires a 20 Amp dedicated circuit.

Features:

- 2300 WATTS OF POWER – The 30" heat chamber contains an 18"x20" infrared heat panel producing 2300 WATTS of power.
- Compact Size – The MERCURY INFRARED COMPACT CONVEYOR DRYERS are compact enough to fit almost anywhere having a footprint of 32" (12.6cm) x 66" (26cm). It is ideal to use as a portable Dryer for those "on site" printing jobs.
- Air Cooled Hood – The MERCURY INFRARED COMPACT CONVEYOR DRYER features improved air flow to keep the hood cool.
- Adjustable Chamber Openings – Sliding doors at the entrance and exit of the heat chamber improve heat stability for consistent curing temperatures.
- Exhaust Ring – an external ring on top of the dryer allows hook up to a standard duct size to vent the dryer externally.



Questions? Give us a call!

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Safety Procedures

WARNING!

RISK OF ELECTRICAL SHOCK! Turn ALL power to unit OFF before service.

All service should be done by or under the supervision of a trained technician

1. For your safety, do not store or use gasoline or other flammable vapors and liquids in the vicinity (at least 3' (1 Meter)) of this or any other appliance.
2. Vent lines to the outdoors must be installed by a qualified HVAC engineer on all air exhaust and gas line components equipped with a vent fitting.
3. Proper grounding (a ground rod at the equipment footing), according to NEC requirements, must be provided for during electrical connection by a **QUALIFIED ELECTRICIAN**.
4. Never alter the internal wiring of this machine.
5. Never place any item other than the stock to be cured or dried on this dryer's conveyor belt. Do not overload the belt.
6. Do not let the conveyor belt track off the conveyor drive rollers.
7. Keep all loose articles (including clothing, hair, jewelry, etc.) away from the conveyor belt.
8. Never leave the machine unattended when it is operating.
9. Do not perform maintenance on this machine until all power has been shut off at the dryer **AND** at the incoming power circuit breaker.

THIS ELECTRIC DRYER IS INTENDED SOLELY FOR THE PURPOSE OF CURING INK ON TEXTILE AND CUT GOODS. THIS DRYER IS NOT INTENDED FOR USE IN HEATING, CURING OR BAKING OF ANY OTHER MATERIALS.

THIS DRYER IS INTENDED FOR INDOOR USE ONLY



THE EXCLAMATION WITHIN AN EQUILATERAL TRIANGLE SYMBOL IS INTENDED TO ALERT THE USER OF IMPORTANT SAFETY PRECAUTIONS TO BE AWARE OF DURING OPERATION.

Assembly Parts

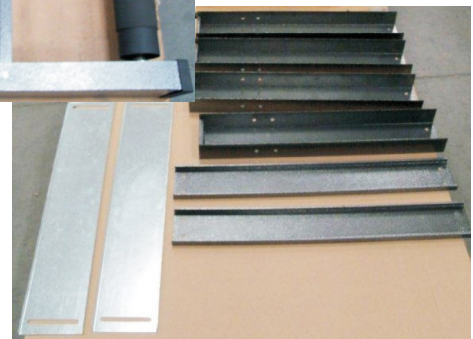
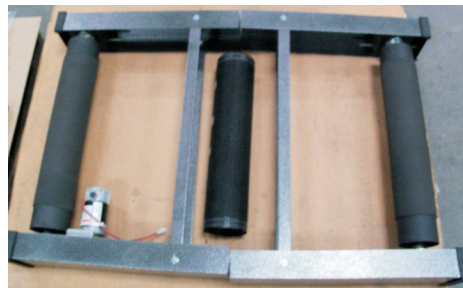
Parts Bags

- 16-Washers
- 16-Flanged Lock Nuts
- 16-Leg Bolts (5/16-18 x 3/4)
- 4-Leg Leveling Bolts



Carton Contents

- 4-Legs
- 2 Cross Braces
- Power Cord
- Dryer Body
- 2 Belt Roller Assemblies
- 1 Belt



Assembly

The MECURY INFRARED COMPACT CONVEYOR DRYER may be used as a table top dryer or a self standing dryer.

To use as a self standing dryer please attach the included legs. Fasten two legs to each cross brace using four 5/16 -18 x 3/4" bolts, washers and flanged lock nuts. Hand tighten fasteners.



Place the dryer body on a sturdy table as shown. After assembling the legs, align both sets of legs to the leg mount tabs on the dryer body.



Using two people lift the dryer body from the table and insert one side of the dryer body into a leg assembly.

Align the remaining leg assembly.



Assembly

With help from an assistant ensure that all four leg tabs are fully engaged with the leg assemblies.



Fasten the legs to the leg tabs using eight 5/16 -18 x 3/4" bolts, washers and flanged lock nuts. Hand tighten fasteners. Using a 1/2" wrench, securely tighten the fasteners used to attach the cross braces to the legs and securely tighten the fasteners used to affix the legs to the leg tabs.

Install the leg leveling bolts with the aid of an assistant. Lift each end of the dryer and install the leg leveling bolts into the end of each leg.

Adjust the leg leveling bolts as needed to ensure the dryer is resting securely on each leg.

DO NOT USE THE LEVELING BOLTS TO ADJUST THE HEIGHT OF THE DRYER OR DAMAGE MAY RESULT!



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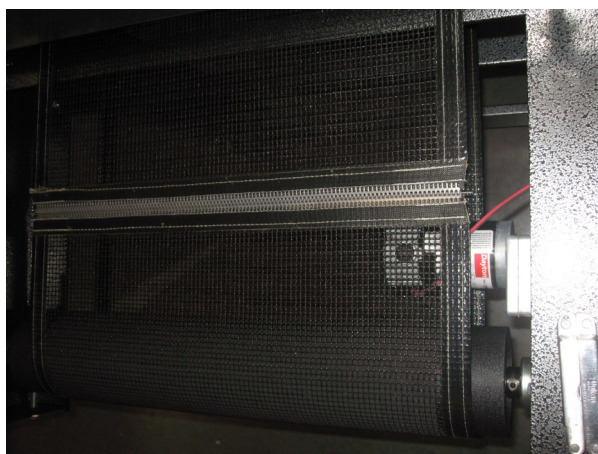
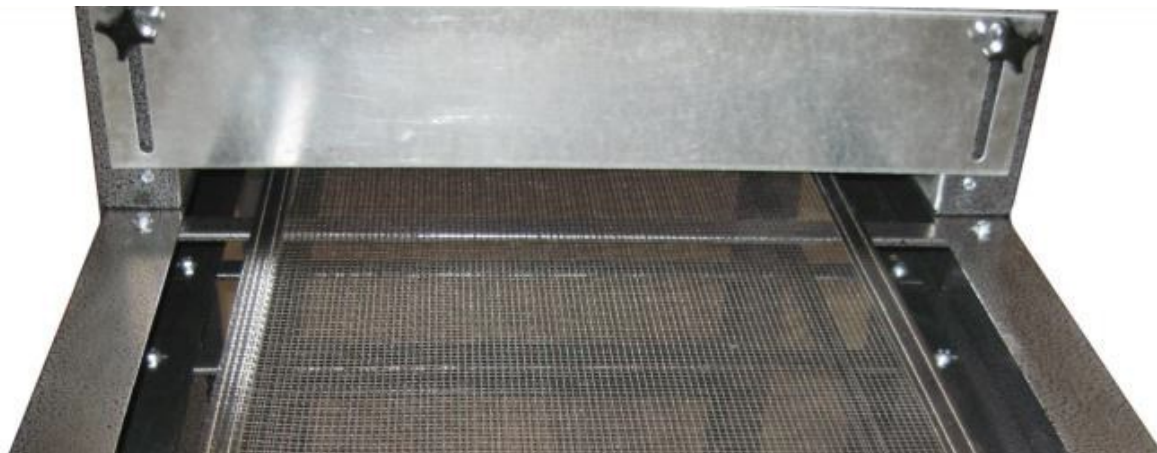
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Belt Installation

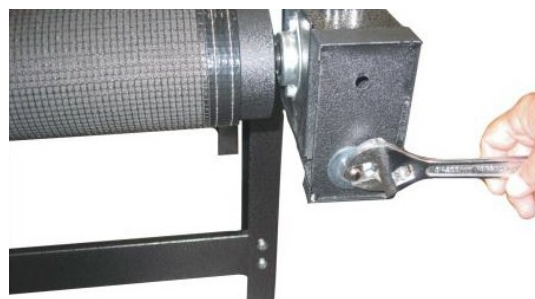
Thread the belt over the lower cross brace and through the lower slot on the roller/rail assembly. Guide the belt through the oven chamber, through the lower slot and over the lower cross brace on the opposite roller/rail assembly. Pull the belt around the outside of the roller and over the top of the upper cross brace. Thread the belt through the oven chamber and over the upper cross brace until both ends of the belt meet.



Align the belt closure so the teeth mesh with each other and install the fastening pin into the teeth. Insert the fastening pin while holding the closure together. When the fastening pin is fully inserted into the teeth, align or trim the pin as needed to avoid potential damage to garments landing on the belt. Refer to page 8 for belt tracking procedures.

Belt Tracking

After the belt is centered on the rubber portion of the rollers, evenly adjust the tension bolts on all four corners of the dryer to tighten the belt until the belt can be deflected by approximately two inches. Start the dryer with the belt speed set at 35%. As the belt heats up make very small adjustments to maintain the belt in the center of the rollers. Turning any of the tension bolts clockwise will tighten the belt in that corner, turning the tension bolts counter-clockwise will loosen the belt in that corner.



If the belt is tracking to the right, turn the right tension bolt clockwise in 1/4 turn increments. If the belt continues to track to the right adjust as needed by turning the tension bolt clockwise 1/4 turn at a time.

If the belt is tracking to the left, turn the left tension bolt clockwise in 1/4 turn increments. If the belt continues to track to the left adjust as needed by turning the tension bolt clockwise 1/4 turn at a time.

Belt tension is critical in tracking and to prevent premature wear of the motor and belt. If tracking adjustments have caused excessive belt tension it may be necessary to reset the belt tension bolts and start over.

DO NOT OVER TENSION THE BELT.



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Controls

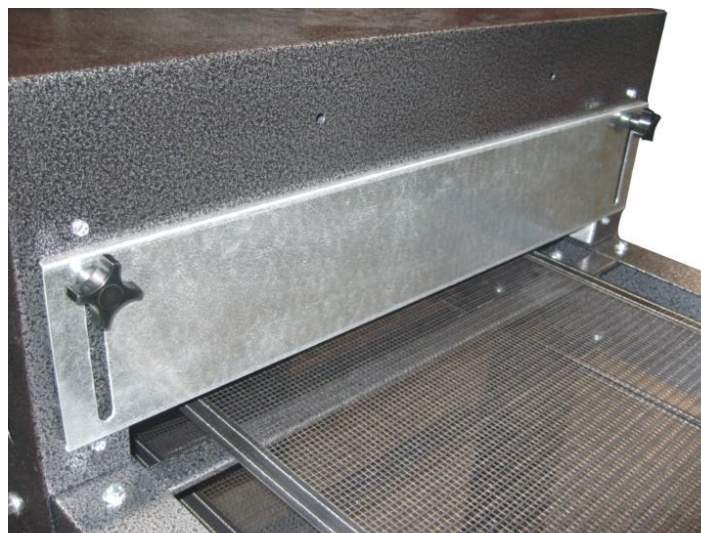
With the On/Off toggle Switch in the OFF position, plug in the unit. Set the Belt Speed to approximately 35% and push the ON/OFF Toggle Switch to the ON position. The Indicator Light will come on, the belt will start to turn and the elements will heat.

Adjust the sliding doors by loosening both knobs on each door. Position the door to allow the substrate you are drying to pass easily under the doors. IF THE DOORS ARE TOO LOW THE SUBSTRATE MAY BE TRAPPED IN THE HEATED CHAMBER.

The doors will get hot during normal use. Use heavy gloves to adjust during operation if needed.

Test the first garment dried with a non contact infrared digital thermometer and adjust the belt speed to achieve the recommended ink curing temperature.

Workhorse Products carries a non contact infrared digital thermometer to accurately measure the surface temperature of your garments. Please call customer service today for price and availability!



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Spare Parts

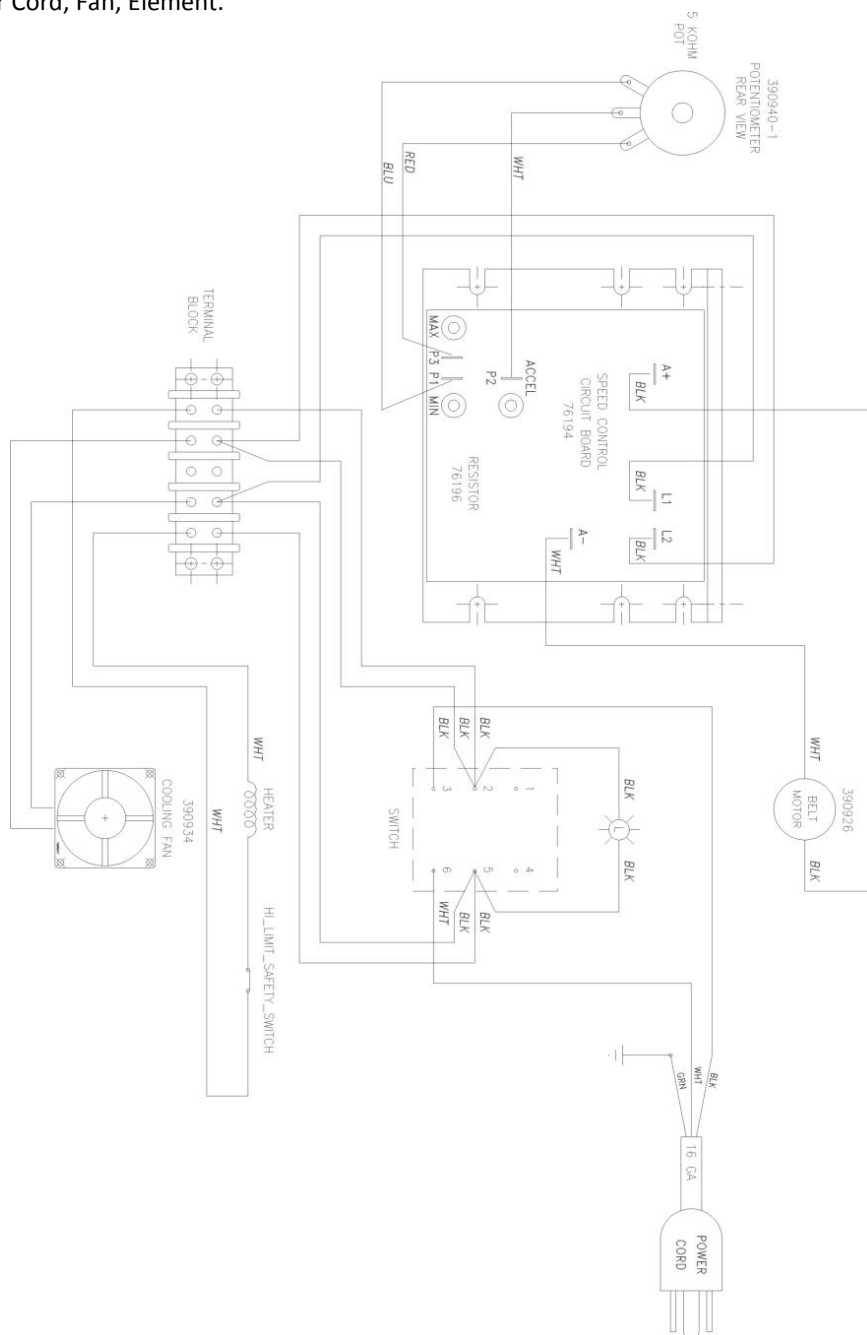
Part Number	Description
76003	Power Switch
76194	Speed Control Board
76198	Speed Control Resistor
390978	Speed Control Potentiometer
76195	Speed Control Knob
31-76004	Fan 115V
76005	Fan 230V
20602R	Heating Element 115V
20603R	Heating Element 230V
390981	Belt Drive Motor
60186	Belt
75024	Roller Bearing



Wire Diagram

Wiring Diagram: 115/220V Mercury Compact Dryer

NOTE: The diagrams for the 115V and 220V models are the same, with variations in the components only. Shown Below with 115V components ; Power Cord, Fan, Element.



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Limited Warranty

Although every effort has been made to provide accurate specifications, Workhorse Products does not assume any liability for damages, whether consequential or incidental, that may result from the use or misuse of the indicated specifications. Workhorse Products requires the use of a licensed industrial electrician for the installation of electrical service to equipment requiring electrical power.

Workhorse Products reserves the right to alter specifications in the manufacture of its products. It is understood and agreed that Seller's liability for any equipment whether liability in contract, in tort, under any warranty, in negligence, in strict liability or otherwise shall not exceed the return of the amount of the purchase price paid by Buyer. Notwithstanding the foregoing provision, under no circumstances shall Seller be liable for special, indirect or consequential damages. The price stated for the equipment is a consideration in limiting Seller's liability. No action regardless of form, arising out of the transactions under this Agreement may be brought by Buyer more than one (1) year after the cause of action has occurred. Our warranty is specified is exclusive and no other warranty, whether written or oral, is expressed or implied. Workhorse Products specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Equipment manufactured or sold by Workhorse Products is warranted against defects in workmanship and materials for a period of one year from receipt by customer. All warranties initiate from date of shipment to original customer. Replacement parts are covered for the term of the equipment warranty period. Parts not under warranty are covered for thirty (30) days from receipt by customer. Any part found by Workhorse Products to be defective in material or workmanship within the stated warranty period will be replaced or repaired at Workhorse's option without charge.

AFTER OBTAINING AN RMA# SEND RETURNED FREIGHT PREPAID TO 3730 E. Southern Avenue, PHOENIX, AZ 85040 USA.

Written authorization must be obtained from Workhorse before any part will be accepted. Replacement parts are sent out freight collect.

Parts sent out prior to receiving defective require a credit card hold for cost plus freight. Upon return of defective part, if it is deemed that the part was not damaged by customer but failed, the cost of the replacement part will be refunded.

Registration Form

Company Name: _____	Contact Name: _____
Address: _____	Phone Number: _____
_____	Fax Number: _____
City: _____	Email : _____
State: _____	Cell Number: _____
Country: _____	Serial Number: _____
Zip Code: _____	Date Recived: _____
Model Number: _____	
Date Purchased _____	

Please Fax Registration Form for warranty to take place