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STBS 16 Heat Shrink Tunnel OPERATION AND MAINTENANCE



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VALUE-PLUS EQUIPMENT

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OPERATION AND MAINTENANCE
STBS 16 Shrink Tunnel

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VALUE-PLUS EQUIPMENT

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OVERVIEW

The Model STBS 16 Shrink Tunnel heats shrink film so that it conforms to the shape of solid products. The result is a transparent, sealed package that is economical, enhances product appearance, and maximizes shelf life by controlling moisture, abrasion, contaminants and oxidation.



FEATURES, SAFETY PRECAUTIONS, AND TECHNICAL SPECIFICATIONS

FEATURES

1. Circulating fan is energy efficient and effective for keeping the hot air flow temperature even
2. Adjustable speed heavy duty conveyor able to withstand long operating periods.
3. Streamlined, functional design for easy cleaning and maintenance.
4. Easily adjustable temperature controls with *solid boost* for accurate temperature control.
5. Standard component parts are easily replaced if necessary.

SAFETY PRECAUTIONS

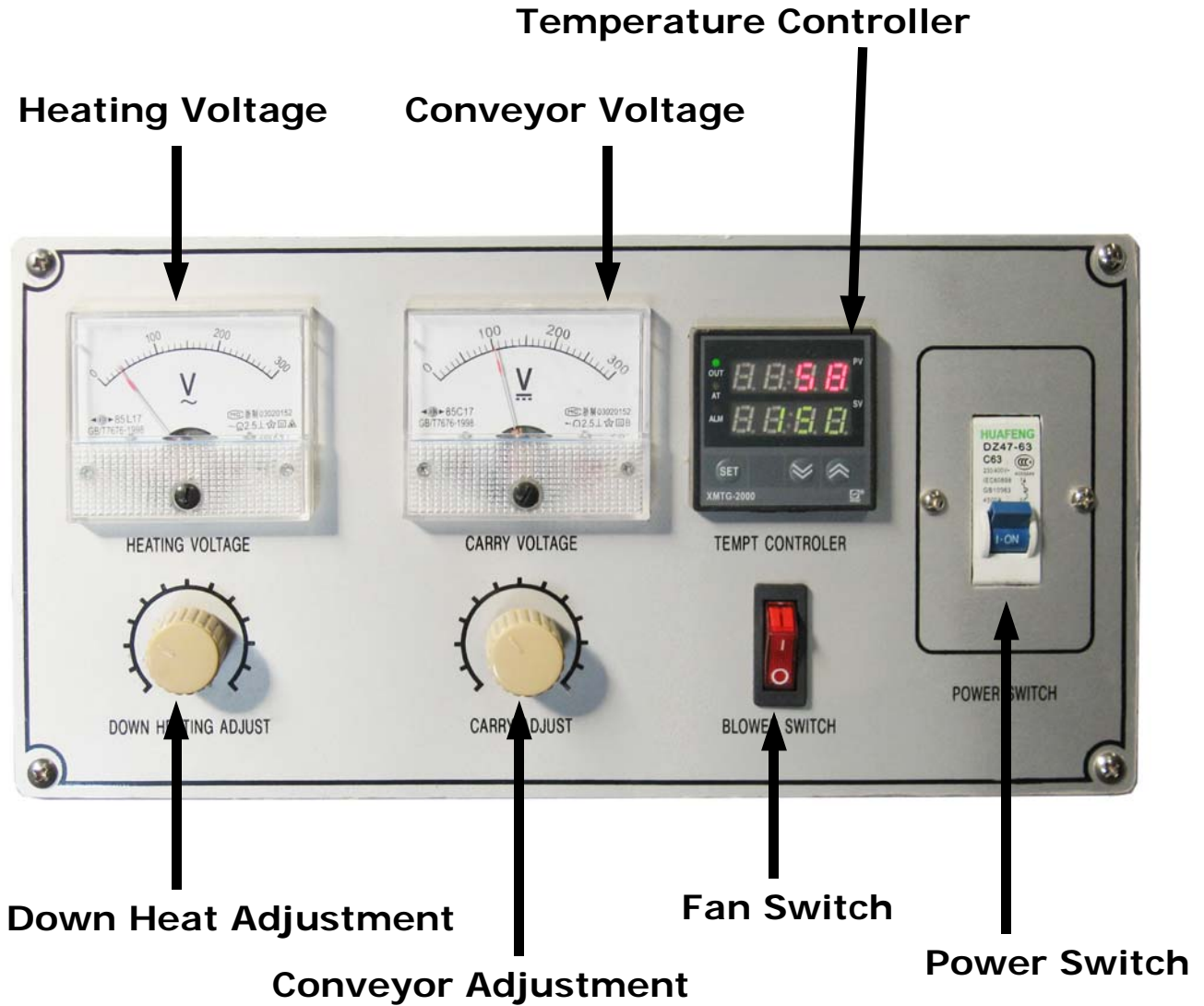
1. Make sure that the power source matches the power requirements of the machine (noted on the tag attached to the cord) and that it is connected to a grounded outlet.
2. Do not set the temperature above 200°C or 390°F.
3. Always operate the machine on a level surface.
4. Check the wiring and heating element in the tunnel regularly (approximately every 3 months) and replace them, if necessary.
5. Keep hands away from the conveyor and the shrink tunnel when the machine is on.

TECHNICAL SPECIFICATIONS

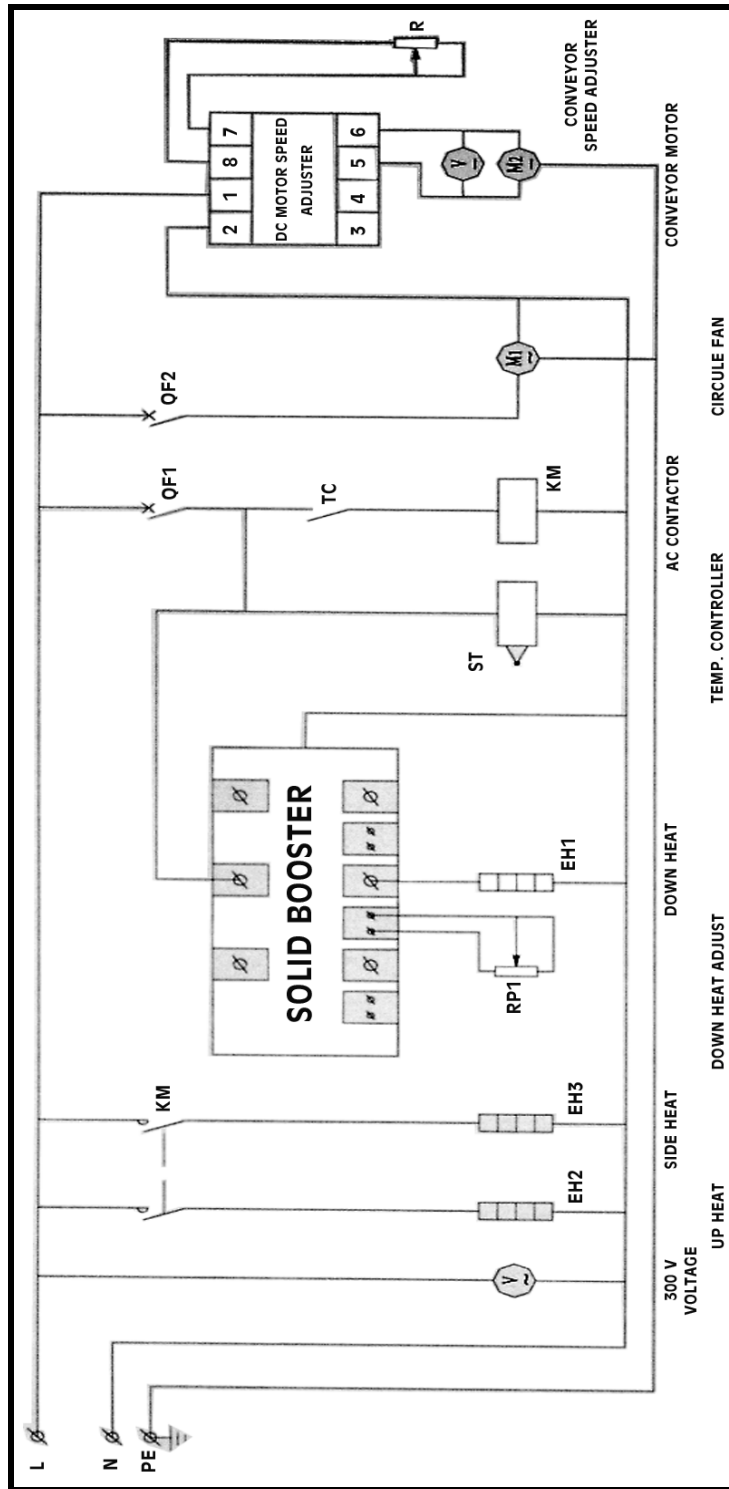
VOLTAGE	POWER	CONVEYOR SPEED	MAX. CONVEYOR WEIGHT	TUNNEL SIZE
220 V / 60 Hz / 1 Ø	7.5 kW	0 – 10 M / min. 0 – 11 yds./min.	5 kg	830 x 400 x 200 mm 33" x 16" x 8"

* All specifications are subject to change without notice.

CONTROL PANEL



CIRCUIT DIAGRAM



OPERATIONS AND SHRINK TEMPERATURE & TIME SETTING GUIDE

OPERATIONS

1. Set up the machine on a level surface.
2. Connect the power supply to an appropriate power source.
3. Turn on the power switch.
 - a. The temperature gauge will show the current temperature and the set temperature; adjust the set temperature according to the thickness of the film: (150 – 170°C, 300 – 340° F).
 - b. Turn on the fan switch to prevent overheating.
4. Turn the heating control for the lower heating element to its maximum setting. When it reaches the maximum temperature, adjust lower heating element downward to a temperature just high enough to yield the desired bottom film shrink result.
5. Use the conveyor speed control to adjust the speed of the conveyor. Start at the mid-point and turn the knob incrementally to go slower or faster until you get the desired results.
6. Continue to adjust the temperature control, conveyor speed and lower heating element as you begin operation until you find the best settings.
 - a. If the film has wrinkles, try to increase the temperature and/or slow down the conveyor.
 - b. If the film is breaking, try decreasing the temperature and/or speeding up the conveyor.
7. When operation is finished, turn down the temperature and allow the machine to cool with the fan and conveyor running before turning it off. This will help to prolong the life of the unit.

SHRINK TEMPERATURE & TIME SETTING GUIDE

SHRINK MEMBRANES	THICKNESS (MM)	SHRINK TIMES	TEMPERATURE
POF	0.02 – 0.10	8 - 16	130 – 170°C (250 – 340° F)
PP	0.02 – 0.04	6 – 12	130 – 170°C (265 – 340° F)
PVC	0.02 - 0.06	5 – 10	110 – 130°C (230 – 265° F)

TROUBLESHOOTING AND SPARE PARTS

TROUBLESHOOTING

	<u>SYMPTOM</u>	<u>POSSIBLE CAUSES</u>	<u>REMEDIES</u>
1.	No heat in tunnel	No power	Turn on the power
		Heating switch broken	Replace
		Heating element or circuitry damaged	Replace or repair
		AC contactor, solid booster or temperature gauge broken	Replace
		Heating control in lowest position	Adjust
2.	Tunnel temperature too low	Broken heating element(s)	Replace
		Heating control set too low	Increase
		Temperature set too low	Reset
		One or more wires loose	Reconnect
3.	Conveyor motor not running	Switch or circuitry damaged	Replace
		Adjuster damaged	Replace
		Motor burned out	Replace
		Conveyor speed set to slowest position	Adjust
		Obstruction on the conveyor	Remove
4.	Fan motor not working	Broken fan switch	Replace
		Broken fan motor	Replace
		Circuitry damaged	Repair
5.	Machine stops suddenly	Disconnected power or broken fuse	Check and replace

SPARE PARTS

No.	DESCRIPTION	QTY.
1.	Inner Hexagon Spanner 4, 5, 10 mm	1 each
2.	Spanner 8 x 10 and 17 x 19 mm	1 each
3.	Test Pen	1
4.	Cross-head Screwdriver	1
5.	Solid booster (75A)	1
6.	Motor speed adjusting circuit board	1

Value-Plus Equipment Limited Warranty

LIMITED STANDARD WARRANTY: Value-Plus Equipment warrants to the original purchaser that all new equipment is free from defects in non-wearable material and workmanship for 180 days from the date of shipment. Claims must be made during that period and are limited to the replacement or repair of non-wearable parts determined to be defective.

This Limited Warranty is valid only when the product has been properly installed and subject to normal use and recommended maintenance. This Warranty shall not extend to products that have been misused, neglected, altered, or repaired without Value-Plus Equipment's authorization during the warranty period. Operating conditions beyond our control such as improper voltage, air or water pressure, excessive ambient temperatures or moisture, or other conditions that would affect the performance or life of the product will also cause the Warranty to become void.

Permission to return parts for warranty repair must be obtained and all returns must be prepaid to Value-Plus Equipment. If, after examination, the product or part is found to be defective, it will be repaired or replaced without charge and returned, FOB Value Plus Equipment. If it is determined that the Warranty has not been breached, then the usual charges for repair or replacement will be assessed, FOB Value-Plus Equipment.

Wearable and expendable parts (including, but not limited to, bearings, seals and gaskets) are excluded from this Warranty. Periodic maintenance of equipment is not covered under this Warranty.

Value-Plus Equipment's maximum liability shall not, in any case, exceed the contract price for the product, part, or component claimed to be defective. Value-Plus Equipment assumes no liability for any special, indirect, or consequential damages arising from defective equipment, product being processed or packaged, or any packaging materials being utilized on equipment provided by Value-Plus Equipment.

THERE ARE NO WARRANTIES IMPLIED OR EXPRESSED THAT EXTEND BEYOND THOSE CONTAINED IN THIS LIMITED STANDARD WARRANTY.