

# TarpLess® Ripening Room

## Inspection & Maintenance Quick Reference Guide



Every TarpLess Ripening Room should be thoroughly inspected once every three months to make sure components and control systems are intact and functioning properly. This can be done in conjunction with room cleaning or as a separately scheduled function. Inspection and testing requires an estimated three to five hours per room with a two-person team. Rooms should be empty and not scheduled for use during this time. Use a maintenance chart to keep careful, detailed records of all maintenance and repair procedures to ensure quick resolution of any service related issues and to stay in full compliance with Thermal Tech warranty requirements.

### Maintenance List:

Make sure tools and testing equipment are on hand before beginning the inspection process. Visit [www.thermaltechnologies.com](http://www.thermaltechnologies.com) for more information.



#### Fluorescent Light Bulbs & Cooling Coil Fins

Start by replacing burned out fluorescent light bulbs in the room as needed. Then, use a lift to inspect the entire length of the cooling coil(s) to check for bent or damaged fins. Use a fin comb, available from any heating or air conditioning supply company, to straighten bent sections of fins as necessary. Make sure fin comb matches your evaporator fin spacing.



#### Pallet Closure System

Working from the top of the room down, carefully inspect the entire pallet closure system on every tier along both sides of the room. Check each transition curtain, bulb gasket and pallet closure curtain for tears, excessive wear or damage. Note any damaged components for repair or replacement to ensure proper airflow. Replacement bulb gaskets and curtains are available from Thermal Technologies.



#### Ripening Room Doors

In rooms with sectional doors, apply talc powder the entire length of all door gaskets once a month to keep doors traveling up and down smoothly. Open and close the ripening room door to make sure it is working smoothly and achieving proper seal. Inspect door gasket and hinges. If light can be seen anywhere between the door and gasket, adjust as necessary to restore proper seal. Replace excessively worn or damaged door gaskets. Inspect the roller mechanism and motor to make sure keys are in the shaft and that there are no metal shavings. Source and repair any problems as soon as possible to prevent further damage.



In rooms equipped with fabric doors, inspect roller mechanism to make sure door is sealing smoothly and evenly along each side. Repair or replace Velcro as needed if excessive bunching or gaps appear. Tears can be repaired using same color vinyl tape on the inner and outer sides of the tear.



#### Temperature and Humidity Sensors,

With the room turned off and the door open, use the exterior room controller or touch screen to check temperature and humidity readings. They should be showing ambient warehouse temperature and humidity levels. A variance of a degree or so between the bottom and top of an open room is normal. Immediately replace any sensor registering a fault, invalid or high/low default reading. This can hinder room performance and damage fruit. Pulp probes should be recalibrated once every three months to maintain accuracy. See the calibration checklist in the Owner's Manual for more information.



#### Gassing and Venting Systems

Unplug the gas generator then set the room to "gassing" mode using the external controller or touch screen pad. Use an outlet receptacle tester to verify that the electrical outlet for the gas generator has power then briefly plug in the gas generator to verify the green gas generator light comes on. After testing, reset "gassing" mode to off.

Next, use the external controller or touch screen pad to set the room to "vent". Make sure the dampers open and that all venting fans are working properly. Then, turn off the venting system and double check to make sure the dampers are in the closed position and that all fans are off. Initiate repair or replacement of any components that are not functioning properly. Note: the venting system will not operate if the room is in "gassing" mode.



#### Humidification and Reverse Osmosis Systems

Using the external controller or touch screen pad, set the room to "humidification" and visually inspect the Stulz humidifier to make sure mist is flowing from all nozzles. If humidifier fails to turn on, make sure it is receiving power. Humidification will not turn on if the room is set to "vent". Clean or replace water filters every three months or as needed based on water quality. Follow all instructions for the care and maintenance of Stulz humidifiers contained in the Owner's Manual.



Access and visually inspect all filters in the reverse osmosis system. Replace filters as needed based on local water quality, but at least once per year. Follow all instructions for system care and maintenance. Place a tag on the system to keep track of service dates and filters exchanged.



Great Fruit Starts with Superior Ripening Technology