

# Pasteurization Procedure

## Thermo Fluid Heating and Circulation System

*Thermo fluid is heated and circulated through the boiler and dryer system using one of the two Boiler #1 or Boiler #2 and circulation pumps*

### Expansion Tank

- Check tank level
  - If need add Thermo Fluid using the “Oil Fill Pump”
  - Check nitrogen level
  - Adjust as necessary

### Oil Fill Pump Tank

*The Thermo fluid Oil Fill Pump is used to add or remove oil from the expansion tank.*

- Power disconnect located in ECC, Oil Fill Pump – **ON**
- Check valves – **Valves OPEN**
  - Open applicable oil lines based on desired pump configuration
- Check tank level
  - Check nitrogen level
  - Pump start switch – **ON**

### Boiler #1 Circulation Pump

- Visually inspect circulation pump for leaks or hazards prior to starting
- Check valve group oil lines – **Valves OPEN**
  - Open applicable oil lines based on desired operation
- Bleeder valves – **OPEN/CLOSED**
- Power disconnect located in ECC, Burner #1 TC1 Control Panel – **ON**
- TC1 control panel, circulation pump – **ON**

### Boiler #1 Blower/Burner

- Power disconnect located in ECC, Boiler #1 Blower – **ON**
- Burner #1 TC1 Control Panel, Main power – **ON**
- Burner #1 TC1 Control Panel, Burner blower power – **ON**

**NOTE:** *Only one boiler and circulation pump shall be operated at a time*

### Boiler #2 Circulation Pump

- Visually inspect circulation pump for leaks or hazards prior to starting
- Check valve group oil lines – **Valves OPEN**
  - Open applicable oil lines based on desired operation
- Bleeder valves – **OPEN/CLOSED**
- Power disconnect located in ECC, Burner #2 TC1 Control Panel – **ON**
- TC1 control panel, circulation pump – **ON**

### Boiler #2 Blower/Burner

- Power disconnect located in ECC, Boiler #2 Blower – **ON**
- Burner #2 TC1 Control Panel, Main power – **ON**
- Burner #2 TC1 Control Panel, Burner blower power – **ON**

# Pasteurization Procedure

## Dryer #1

- Visually check Dryer #1 for obstructions or hazards prior to starting
- Main power disconnect located in ECC – **ON**
- Using the Main or Remote PLC touch screen – **Select Dryers Screen**
- Dryer screen
  - Dryer #1 Level 4 Start button – **ON**
  - Dryer #1 Level 3 Start button – **ON**
  - Dryer #1 Level 2 Start button – **ON**
  - Dryer #1 Level 1 Start button – **ON**

## Dryer #2

- Visually check Dryer #2 for obstructions or hazards prior to starting
- Main power disconnect located in ECC – **ON**
- Using the Main or Remote PLC touch screen – **Select Dryers Screen**
- Dryer screen
  - Dryer #2 Level 4 Start button – **ON**
  - Dryer #2 Level 3 Start button – **ON**
  - Dryer #2 Level 2 Start button – **ON**
  - Dryer #2 Level 1 Start button – **ON**

## Dryer #3

- Visually check Dryer #3 for obstructions or hazards prior to starting
- Main power disconnect located in ECC – **ON**
- Using the Main or Remote PLC touch screen – **Select Dryers Screen**
- Dryer screen
  - Dryer #3 Level 4 Start button – **ON**
  - Dryer #3 Level 3 Start button – **ON**
  - Dryer #3 Level 2 Start button – **ON**
  - Dryer #3 Level 1 Start button – **ON**

## Scrubber System

*The scrubber system removes steam and airborne particulates from each level of the three dryers, the system consist of a network of ducting a scrubber vessel, a blower unit, and a water pump*

## Scrubber Blower

- Visually check the scrubber blower for obstructions or hazards prior to starting
- Power disconnect located in ECC, Scrubber Blower #1– **ON**
- Scrubber Blower Panel
  - Blower – **ON**

## Scrubber Water Supply

- Check scrubber water lines – **VALVES PROPERLY POSITIONED**
- Power disconnect located in ECC, Water Supply Pump to Scrubber #1– **ON**
- Using the Main or Remote PLC touch screen – **Select Pumps Screen**
- Pumps screen
  - Scrubber Water Supply Pump – **ON**