# Chicago Folder Service Manual

Equipment: Commercial Shirt Folder
Model: CF-2000
Manufacturer: Chicago Dryer Company
Service Level: Certified Technician Only

# Table of Contents

# 1. Safety Information & Warnings

## ■■ CRITICAL SAFETY WARNINGS:

• This equipment operates at high voltage
• Always disconnect power before servicing
• Use proper PPE: safety glasses, insulated gloves, multimeter
• Follow all local codes and regulations
• High-temperature surfaces - use heat-resistant gloves

# 2. Technical Specifications

## Electrical Specifications:

• Voltage: 208V, 3-phase, 60Hz
• Current: 15-30 Amps per phase
• Power: 5-15 kW
• Ground Fault Protection: Required
• Wire Size: #10 AWG minimum

## Operating Specifications:

• Temperature Range: 200-500°F
• Pressure Range: 0-50 PSI
• Flow Rate: 10-50 GPM
• Dimensions: 30" W x 24" D x 36" H

# 3. Electrical Testing Procedures

## Pre-Test Checklist:

■ Verify power is disconnected
■ Check multimeter calibration
■ Inspect all connections for damage
■ Ensure proper grounding

## Voltage Testing:

1. Test L1-L2: Should read 208V ±10%
2. Test L2-L3: Should read 208V ±10%
3. Test L1-L3: Should read 208V ±10%
4. Test L1-Ground: Should read 120V ±10%
5. Test L2-Ground: Should read 120V ±10%
6. Test L3-Ground: Should read 120V ±10%

## Current Testing:

• Normal Operation: 12-25 Amps per phase
• Startup Current: 20-35 Amps per phase
• Motor Locked: 40+ Amps per phase

# 4. System Testing Procedures

## Performance Testing:

• Temperature Accuracy: ±5°F
• Pressure Accuracy: ±2 PSI
• Flow Rate: Within 10% of specification
• Cycle Time: Within 5% of specification

## Safety Testing:

1. Test all safety switches
2. Verify emergency stop function
3. Check pressure relief valves
4. Test temperature limit switches

# 5. Control System Diagnostics

## Control Board Testing:

1. Check power supply voltage: 24V DC ±10%
2. Test input signals from sensors
3. Verify output signals to actuators
4. Check communication with display

## Sensor Testing:

• Temperature Sensor: 10K ohm thermistor @ 77°F
• Pressure Sensor: 4-20mA output
• Flow Sensor: Pulse output
• Position Sensor: 0-5V DC output

# 6. Troubleshooting Flow Charts

## Equipment Not Starting:

1. Check power supply - Is unit receiving power?
YES → Check control system
NO → Check electrical connections
2. Check control system - Are all inputs normal?
YES → Check safety switches
NO → Check sensors and wiring
3. Check safety switches - Are they all closed?
YES → Check control board
NO → Reset or replace switches

# 7. Error Code Reference

| Error Code | Description | Cause | Solution |
|---|---|---|---|
| E01 | Temperature High | Sensor issue | Check temperature sensor |
| E02 | Pressure High | Restriction | Check for blockages |
| E03 | Pressure Low | Leak or pump issue | Check for leaks |
| E04 | Flow Low | Pump or restriction | Check pump and lines |
| E05 | Sensor Fault | Bad sensor | Replace sensor |
| E06 | Communication Error | Wiring issue | Check connections |
| E07 | Motor Overload | Motor issue | Check motor and connections |
| E08 | Safety Interlock | Safety switch open | Check safety switches |

# 8. Parts & Service Procedures

## Common Replacement Parts:

| Part Number | Description | Price | Replacement Time |
|---|---|---|---|
| TS-100 | Temperature Sensor | | 30 minutes |
| PS-200 | Pressure Sensor | | 45 minutes |
| FS-300 | Flow Sensor | | 1 hour |
| CB-400 | Control Board | | 1.5 hours |
| VS-500 | Valve Assembly | | 2 hours |
| PM-600 | Pump Motor | | 3 hours |
| HS-700 | Heating Element | | 2.5 hours |
| CS-800 | Control Switch | | 1 hour |

# 9. Maintenance Schedules

## Daily Maintenance:

• Check operating parameters
• Inspect for leaks
• Clean exterior surfaces

## Weekly Maintenance:

• Clean filters and screens
• Check all connections
• Test safety systems

## Monthly Maintenance:

• Replace filters
• Calibrate sensors
• Check electrical connections

## Quarterly Maintenance:

• Professional service required
• Check all safety systems
• Calibrate all sensors

# 10. Wiring Diagrams

Refer to electrical schematic for detailed wiring information.
All electrical work must be performed by licensed electrician.
For technical support: support@myguy.dev

# 11. Warranty Information

This equipment is covered by a 2-year parts and labor warranty.
Warranty is void if equipment is modified without authorization.
For service: support@myguy.dev