

Machine #: _____ **Machine Type:** P120 P80 **Room #:** _____ **Console Serial #:** _____

General Inspection & Start Up

Check the quality of the following items. Indicate their status as follows:
 ✓ - Acceptable X - Not Acceptable O - Attention needed N/A - not applicable

<p>General Machine</p> <input type="checkbox"/> Cabinet square & plumb <input type="checkbox"/> Even door gaps <input type="checkbox"/> Door seals properly <input type="checkbox"/> Door latches properly <input type="checkbox"/> Upper & lower doors aligned <input type="checkbox"/> Door gasket good condition <input type="checkbox"/> Door sweep effective <input type="checkbox"/> Joints properly caulked <input type="checkbox"/> ECU position & condition, supports properly located <input type="checkbox"/> Guide rails height & install <input type="checkbox"/> Grout complete & clean <input type="checkbox"/> Silicone around all liquid tight, light bar, etc.	<p>Functional Units</p> <input type="checkbox"/> ECU sloped away from intake <input type="checkbox"/> ECUs In line <input type="checkbox"/> Damper motor operation <input type="checkbox"/> Damper closed adjustment <input type="checkbox"/> Damper openings equal <input type="checkbox"/> All racks checked for turning <input type="checkbox"/> Motor mount bolts (16) tight <input type="checkbox"/> Touch screen	<p>Machine Console</p> <input type="checkbox"/> Console latches & seals <input type="checkbox"/> Console doors are aligned <input type="checkbox"/> Console interior dry <input type="checkbox"/> Cleanliness in console <input type="checkbox"/> Primary alarm connected <input type="checkbox"/> Network connection <input type="checkbox"/> Status Lights Work <input type="checkbox"/> Internal LEDs work <input type="checkbox"/> E-Stop button works <input type="checkbox"/> Motors off switch works <input type="checkbox"/> Lights - Alarm (Red) <input type="checkbox"/> Lights - Alarm Bypass (Amber)	<p>Sensors</p> <input type="checkbox"/> Temp probe condition <input type="checkbox"/> Humidity sensor condition <input type="checkbox"/> Humidity sensor cover <input type="checkbox"/> CO ₂ sensor condition <input type="checkbox"/> CO ₂ sensor cover <input type="checkbox"/> BUA probe installed and connected <p>Racks (full set per machine)</p> <input type="checkbox"/> Turn properly <input type="checkbox"/> Air cylinders do not leak <input type="checkbox"/> Retaining clips in place
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Site Leader: _____

Calibration

Fill out the actual values in this area.

Calibration Checks:

Temperature
 Set Point _____ °F/°C Display reading _____ °F/°C Check reading _____ °F/°C
 Offset: Front _____ %/°F/°C Offset: Rear _____ %/°F/°C

Humidity
 Set Point _____ %/°F/°C Display reading _____ %/°F/°C Check reading _____ %/°F/°C Offset: _____

Carbon Dioxide Calibration Type: instrument bottle
 Set Point _____ %/ppm Display reading _____ %/ppm Check reading _____ %/ppm

Damper
 Set Point _____ % Display reading _____ %

Power Supply Voltage
 _____ Output-V to +V 23-25 VDC

Three Phase AC Voltage at Switch [Fans at 100%]
 _____ Terminal 2 to 4 _____ Terminal 2 to 6 _____ Terminal 4 to 6

System Set-Up

Check the quality of the following items. Indicate their status as follows:
 ✓ - Acceptable X - Not Acceptable O - Attention needed N/A - not applicable

<p><i>Machine Programming:</i></p> <p>System Checks</p> <input type="checkbox"/> Console switch settings <input type="checkbox"/> Check all wiring terminations <input type="checkbox"/> Turn failure sensors adjusted <input type="checkbox"/> Pneumatic Valve <p>Main Screen</p> <input type="checkbox"/> Room number <input type="checkbox"/> Machine type <input type="checkbox"/> Unit address <input type="checkbox"/> Setpoints <p><input type="checkbox"/> Primary Alarm operational</p>	<p><input type="checkbox"/> Latest program version</p> <p>Setup Screen</p> <input type="checkbox"/> Display units <input type="checkbox"/> Time and date <input type="checkbox"/> Turn setup <input type="checkbox"/> Humidity setup <input type="checkbox"/> Fan speed setup <input type="checkbox"/> Carbon dioxide setup <input type="checkbox"/> Holding mode <input type="checkbox"/> Dry Down configuration <input type="checkbox"/> Password protection <p><input type="checkbox"/> Correct profiles loaded</p>	<p><input type="checkbox"/> Hatchcom Installed & Set Up</p> <p>Alarm Screen</p> <input type="checkbox"/> Alarm relay test <input type="checkbox"/> Alarm delays set <input type="checkbox"/> Alarm ranges set <input type="checkbox"/> Alarm override test <input type="checkbox"/> Alarm silence test <p>Diagnostic Screen</p> <input type="checkbox"/> All outputs green <input type="checkbox"/> Analog: 0000 <input type="checkbox"/> Novram: 0000	<p>Graph Setup</p> <input type="checkbox"/> Graph range <input type="checkbox"/> Graph sample time <p>Interface/Display</p> <input type="checkbox"/> Fan button <input type="checkbox"/> Fan failure calibration <input type="checkbox"/> Light button <input type="checkbox"/> Alarm bypass button <input type="checkbox"/> Emergency shut off <input type="checkbox"/> Alarm bypass switch silent when power off
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Field Service Technician: _____

Service Commissioning

Check the quality of the following items. Indicate their status as follows:
 ✓ - Acceptable X - Not Acceptable O - Attention needed N/A - not applicable

Machine Supplies:

6 way valve in place

Chilled and Hot water Characteristics match (6 way only)

Water System Available:

Chiller, Setpoint: _____
 Boiler, Setpoint: _____

Fluid Cooler if temps <40F Glycol if temps <40F

Contractor completed water system start up and flushed lines:

Chilled water system Hot water system

Cooling

- 58°F ± 1°F at ECU unit
- 40 PSI maximum pressure
- 4 (P80) or 5 (P120) US GPM ECU flow
- Cold water valve
- Coils functioning
- Supply flushed before solenoid
- ECUs purged of air
- System free of leaks

Cooling - 6 Way Valve

- 58°F ± 1°F at ECU unit
- 40 PSI maximum pressure
- 3 GPM ECU flow
- Cold water valve
- Coils functioning
- Supply flushed before solenoid
- ECUs purged of air
- System free of leaks

Heating - Water

- 150°F at ECU unit
- 40 PSI maximum pressure
- 4 (P80) or 5 (P120) US GPM ECU flow
- Hot water valve
- Coils functioning
- Supply flushed before solenoid
- ECUs purged of air
- System free of leaks

Heating - Electric

- Electric heat working
- Current: _____

Humidity System

- Minimum 65 PSI at ECU unit
- Humidity nozzles removed & system flushed
- Humidity system checked for leaks
- Humidity sprays functioning
- Humidity water meets JW requirements

Fan Systems

- Variable speed drives function
- VSD programming correct
- Fan rotation correct
1,4: CCW 2,3: CW

Compressed Air

- Pressure _____ psi
JW: 60-90 psi MAX
- No leaks
- Air valve assembly
- Air lines
- Air filter regulator assembly

Ventilation (complete for the first machine in each room)

Temperature

Set Point _____ °F/°C
JW: 72-78°F (22-26°C) opt. 75°F (24°C)

Humidity

Set Point _____ %
JW: 40-50%, opt. 45%

Pressure

Set Point _____ in w.c.
JW: 0.010-0.020" (2.5-5 Pa)

Plenum Pressure

Set Point _____ in w.c.
JW: P80: -0.025 to -0.035" (-6.2 to -8.7 Pa)
 P120: -0.030 to -0.040" (-7.5 to -10 Pa)
 [referenced to the room]

- Set points meet JW recommendations; If NO, advise customer of JW req'ts
- Ventilation meeting all set points

Commissioning Field Service Technician: _____

Additional Notes:

COMMISSIONED BY: _____

CUSTOMER NAME: _____

DATE: _____

ORDER #: _____

CUSTOMER SIGNATURE: _____