

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

General Machine

- Cabinet square & plumb
- Even door gaps
- Door seals properly
- Door latches properly
- Upper & lower doors aligned
- Door gasket good condition
- Door sweep effective
- Joints properly caulked
- ECU position & condition, supports properly located
- Guide rails height & install
- Grout complete & clean
- Silicone around all liquid tight, light bar, etc.

Functional Units

- ECU sloped away from intake
- ECUs In line
- Damper motor operation
- Damper closed adjustment
- Damper openings equal
- All racks checked for turning
- Motor mount bolts (16) tight
- Touch screen

Machine Console

- Console latches & seals
- Console doors are aligned
- Console interior dry
- Cleanliness in console
- Primary alarm connected
- Network connection
- Status Lights Work
- Internal LEDs work
- E-Stop button works
- Motors off switch works
- Lights - Alarm (Red)
- Lights - Alarm Bypass (Amber)

Sensors

- Temp probe condition
- Humidity sensor condition
- Humidity sensor cover
- CO₂ sensor condition
- CO₂ sensor cover
- BUA probe installed and connected

Racks (full set per machine)

- Turn properly
- Air cylinders do not leak
- Retaining clips in place

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 _____ %

Voltage Check Points - SMA111 Circuit Board [Use TP21 Black as a reference]

_____ TP20 (Red) +5 VDC +/- 0.1 _____ TP19 (Green) +1.00 VDC +/- 0.0 _____ TP18 (Orange) +0.1 to 1.1 VDC
 _____ TP9 (solder) +12 VDC +/- 0.6 _____ TP8 (solder) -12 VDC +/- 0.6 _____ TP15 (solder) +5 VDC +/- 0.25

Transformer T1 Voltage

Transformer T2 Voltage

_____ Output X1 to X4 24 VAC +/- 2.0 _____ Output X1 to X4 208-240 VAC

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:

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Machine Programming:

Latest program version

Hatchcom Installed & Set Up

System Checks

Setup Screen

Alarm Screen

Graph Setup

- Console switch settings
- Check all wiring terminations
- Turn failure sensors adjusted
- Mac Valve

- Display units
- Time and date
- Turn setup
- Humidity setup
- Fan speed setup
- Carbon dioxide setup
- Holding mode
- Dry Down configuration
- Password protection

- Alarm relay test
- Alarm delays set
- Alarm ranges set
- Alarm override test
- Alarm silence test

- Graph range
- Graph sample time

Main Screen

- Room number
- Machine type
- Unit address
- Setpoints

Correct profiles loaded

- Diagnostic Screen**
- All outputs green
 - Analog: 0000
 - Novram: 0000

- Interface/Display**
- Fan button
 - Fan failure calibration
 - Light button
 - Alarm bypass button
 - Emergency shut off
 - Alarm bypass switch (located inside console)

Primary Alarm operational

Field Service Technician: _____

Service Commissioning

Check the quality of the following items. Indicate their status as follows:

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Machine Supplies:

6 way valve in place

Chilled and Hot water Characteristics match (6 way only)

Water System Available:

Chiller, Setpoint: _____

Fluid Cooler if temps <40F

Glycol if temps <40F

Boiler, Setpoint: _____

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: _____