

Machine #: _____ **Machine Type:** P60 P40 P20 **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: _____

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

_____ Output X1 to X4 24 VAC +/- 2.0

Transformer T2 Voltage

_____ 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

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

Setup Screen

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

Alarm Screen

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

Graph Setup

- Graph range
- Graph sample time

Main Screen

- Room number
- Machine type
- Unit address
- Setpoints

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

Correct profiles loaded

Field Service Technician: _____

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

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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
 3 (P20, P40) or 4 (P60) US GPM 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
 3 (P20, P40) or 4 (P60) US GPM 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: 0.005 - 0.015" (1.2-3.7 Pa)**Plenum Pressure**Set Point _____ in w.c.
JW: P40,P60: -0.020 to -0.030" (-5.0 to -7.5 Pa)
P20: -0.015 to -0.020" (-3.7 to -5.0 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:** _____