

ABH Start-Up Checklist

| Distributor/Salesperson: | | Model: | | Date: | |
|--|---------------------------|-----------------------|----------------------|-------------------------------|---|
| Location: Serial: | <u> </u> | | | Tag: | |
| Installation Date: | | | | | |
| Site Name: | | | - | | |
| Site Contact (owner/end user): | | | | | |
| Distributor (Service Person): | | | | | |
| Was Base Table | | | | | |
| Venting Primary concern is that the venti | ng (both intake & exhaust |) match exact | ly to one of the two | o following diagrams. | |
| 1. Distance from the closest exhaust to con | nbustion air | (Enter dist | tance in box) | 1 | |
| intake: | | <u></u> | Exhaust | Exterior wall | |
| 2. Distance exhaust is from: | | | | Exh | aust |
| Other ABH's Dryers | | | | | |
| Heating Equipment | | ¬ ∤ 6 ∰ |] ["] | Intake | |
| 3. Distance from closest wall to exhaust: | | <u> </u> | | | |
| 4. Height of the adjoining wall above exhau | st: | - Intelled | Roof | | |
| 5. Does $\mbox{\bf venting slope back}$ to appliance? | | | | | |
| If so, total drop (inches): | anything w | rithin 10 feet. | | | |
| 6. Possibility of chemicals drawn into intake | air? Y N | Vertical Tern | ninations | Horizontal Terminat | ions |
| 7. Total length of inlet & exhaust piping: | | | | | |
| 8. Qty. of elbows: 90° 45° | Qty. of tees: | _ | | | |
| 9. Exhaust pressure: Inlet pressu | ıre: W.C. (Ir | ıches): | (measure | ed at vent connections at app | liance) |
| Piping Diameter | s: | ng at high fii | | °C | |
| Condensate Drain Primary concer 1. Inside piping diameter:" 2. Total Length: | d before connection to | piping drain line? | " Y N | ondensate Removal | |
| 7. Check the level of the heat exchanger; it condensate drains correctly. (Models 79 8. Perform pH TestpH of condensate | 9-599 may tilt slightly t | to the rear) | 5 — | | Drain hose nust not push nore than 1" through slotted cap |



| Ohm Readings (from confirmed earth | h ground; please note that number will never be zero. Use lowest range on meter.) |
|---|---|
| 1. Piping near appliance: | ohms |
| 2. Heat Exchanger:ohm | S |
| 3. Cabinet: ohms | |
| Power Supply | |
| 1. Incoming 208 - 240 volts single phase | Voltage |
| 2. Control Board Version (m | arked on transformer) |
| 3. Is there a ground connection to the bui | ilding ground system? Y N |
| Altitude | |
| 1. Elevation: ft. | |
| Elevation setting on display: | |
| | |
| | ing page for recording gas pressures) |
| 1. Gas piping to heater is: | How and where to macourer |
| Rigid Metal:Flexible : | There are three types of measurements that |
| • Flexible : | must be taken to provide the data to ensure product performance. |
| 2. Piping ID" | • Lock-up pressure - pressure in gas piping at |
| 3. Is there a secondary regulator? Y | appliance inlet with no load, may not exceed 14" N wc. at any time! |
| 4. Pressure Regulator Rating / Size | Tool hours for |
| 5. Incoming pressure to regulator | first on unit in a multiple unit rack). |
| 6. Distance from heater:' | • Maximum load - all appliances on at full fire that |
| 7. Model & Brand: | are connected to the same regulator. |
| | |
| Sensor Tests | |
| | ore the system is operational by following these steps: |
| a. Remove front cover to acces | |
| | cycle, then remove yellow jumper on terminal 13-14 |
| | e reset button, and record the readings |
| d. Re-install the jumper on term | • |
| Pocord roadings: • Controlli | ing sensor location: |
| | |
| • dH: | • rE: • cA: |
| | |
| Outdoor Air (OA) Reset (Testing c | an be done using canned air, commonly used for dusting electronics) |
| Verify location of OA sensor: | |
| | e of building or have a northern exposure. Sensors exposed to direct sunlight |
| should be shielded to prevent false readings. P | Please note that radiant heat from exterior building materials can also cause false readings. |



Outdoor Air (OA) Reset continued

2. Verify existence of parameters within software. Verify reset ramp by spraying OA sensor with compressed air to falsely reset OA temperature, causing system to reset to new setpoint and verify operation.

| <u>Pre-Test</u> | During Test | | | | | | | |
|--|---|-------------------|---|---------------------|--------------------|--|--|--|
| • ou: | | | | | | | | |
| Setpoint: | • Setpoint: | (Keai | (Read by pressing reset after ou. Setpoint is calculated by controller) | | | | | |
| | | | | | | | | |
| Combustion and | Gas Pressure | lests | | | | | | |
| | LEAD | LAG 1 | LAG 2 | LAG 3 | LAG 4 | | | |
| HIGH FIRE CO2 | | | | <u> </u> | | | | |
| LOW FIRE CO ₂ | | | | | | | | |
| LOCK-UP PRESSURE: | | MINIMUM LOAD: | | FULL LOAD: | | | | |
| Gateway Commu Written verification from | | | Gateway status and | communication oper | ation is required. | | | |
| Safety Controls (| /if equipped or connected | d) | | | | | | |
| Test additional safet | , | 1) | | | | | | |
| | anual reset high limit: | | • Low water cut of | off: | | | | |
| | e gas switch: | | | | | | | |
| Alarms (if equipped or | r connected) | | | | | | | |
| Induce fault condition to | o test alarm function. | | | | | | | |
| 1. Turn off gas supply | to appliance and at | ttempt to fire. \ | When F5 appears, | does the alarm circ | uit close? Y N | | | |
| Field Changes/C | | | | | | | | |
| | , o i i i i i i i i i i i i i i i i i i | | | | | | | |
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Please upload digital pictures of installation to dropbox.

- 1. Go to www.hamiltonengineering.com/serviceupload
- 2. Login

Username: HEI ServicePassword: Hamilton34000