

Are the filters clean?

#### ●FLō Field Start-Up Report

SU-FOR-02

Start-Up Audit Form Air Cooled Condenser (6-70 Ton) Title: Date: Store Name: **Store Number: Store Address: Serial Number: Unit Tag:** If you require Technical Support during your start-up, call 888-598-1198 Opt. 1 Images of issues need to be sent to startup@systemsflo.com. Log all issues/errors found in section 24 of this form. IMPORTANT: Turn off and tag out main breaker in electrical panel before proceeding with the start-up. **SECTION 1: EXTERIOR UNIT PREPARATION** N/A YES NO Is the unit free of damage, paint blemishes, or missing screws? Photograph any damage, and add notes of the nature of this damage to section 22. Are the roof seams and roof corners sealed with sealant? Apply sealant if required. Is the unit level and does the drain pan drain towards the p-trap? Is the Outdoor Air Hood (OAH) open and properly fastened to the unit? Open the OAH if it wasn't opened when you arrived. Is the birdscreen installed and free of obstructions? Did you remove the shipping screw from the barometric relief damper(s) and does the relief damper move freely? Are the p-trap(s) are permanently attached to the unit using the proper adhesive? If a p-trap is not installed, assemble, and install a p-trap per Flō specification. Are all door hinges/handles installed and do the inner door frames have weather seals? SECTION 2: DAMPER ASSEMBLY PREPARATION YES NO N/A Are all actuators securely fastened to dampers? Check damper positions when the unit is turned off. Is OAD 100% closed, is RAD 100% open? **SECTION 3: FILTER PREPARATION** YES NO Are all filters installed correctly (arrows pointing towards the coil cabinet)? Do all filters move freely in the filter rack?



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| SECTION 4: COIL(S) PREPARATION   |                   |                |           |                 |             |           |                   |                |          |
|--|-------------------|----------------|-----------|-----------------|-------------|-----------|-------------------|----------------|----------|
| What type of heat recovery is in t   | he Flō un         | nit? F         | Reheat    |                 | Reclaim     |           | No R              | lecovery       |          |
|  | YES               | NO             | N/A       |                 |             |           |                   |                |          |
| Is the e-fin coil coating (including<br>Photograph any e-fin coating issu                    |                   |                |           |                 |             |           |                   |                |          |
| Are all copper tubing isolated so t  |                   |                |           |                 |             |           |                   |                |          |
| Are all suction lines insulated?   |                   |                |           |                 |             |           |                   |                |          |
| Are the shipping straps on the TX' with silicone?  | V(s) capil        | lary tube      | s remov   | ed and are th   | e tubes sej | parated   |                   |                |          |
| Verify that cooling circuit TXV sen  | sing bulb         | s are pos      | sitioned  | at 3 or 9 o'clo | ck, insulat | ed and se | cured on          | the sucti      | on line. |
| COOLING CIRCUITS   | ORIGINAL POSITION | FINAL POSITION | N/A       | COOLING C       | IRCUITS     |           | ORIGINAL POSITION | FINAL POSITION | N/A      |
| Circuit A  |                   |                |           | Circuit C       |             |           |                   |                |          |
| Circuit B  |                   |                |           | Circuit D       |             |           |                   |                |          |
|  | •                 |                | •         | •               |             |           | YES               | NO             | N/A      |
| Is the supply fan mesh installed a   | nd prope          | rly secure     | ed?       |                 |             |           |                   |                |          |
| If the unit has heat reclaim, are th   | ne piping         | connecti       | ons insta | alled?          |             |           |                   |                |          |
| If the unit has heat reclaim, is the   | pipe cha          | se sealed      | d and cle | an?             |             |           |                   |                |          |
| If the unit has heat reclaim or reh pipe and insulated?                                      | eat, are t        | he reclai      | m/rehea   | at temp senso   | ors mounte  | d to the  |                   |                |          |
| Is the plastic edge guard installed  | on the e          | dge of th      | e upper   | drain pan?      |             |           |                   |                |          |
| Is the PVC or copper tubing from 1/2" to 1" above the bottom of the                          |                   | r to lowe      | r drain p | oan installed a | and secure  | d about   |                   |                |          |
| Is the drain pan properly sealed w   | ith caulk         | ing along      | the edg   | ges?            |             |           |                   |                |          |
| Is the drain pan float switch prop   | erly insta        | lled and       | secure?   |                 |             |           |                   |                |          |
|  |                   |                |           |                 |             |           |                   |                |          |
| SECTION 5: SUPPLY CABINET PREPARATION  |                   |                |           |                 |             |           |                   | s              | NO       |
| Did you take a photo of the supply fan motor(s) nameplate?                                   |                   |                |           |                 |             |           |                   | ]              |          |
| Are all wires properly wired and secured, including inside the supply fan motor conduit box? |                   |                |           |                 |             |           |                   |                |          |
| Are the supply fan motor connect   | ors sized         | appropr        | iately to | the wire gau    | ge?         |           |                   | ]              |          |



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|---|----------------------------------|-----------------|--------|-------|--------|------|----------|----------|--------|
|   |                                  |                 |        |       |        |      |          |          |        |
| Are the supply fan(s) set screws tight?   |                                  |                 |        |       |        |      |          |          |        |
| Does the supply fan(s) move freely (not v   | wobbling or rubbing              | )?              |        |       |        |      |          |          |        |
| Are the supply fan(s) vent plugs opened,  | and are the plugs ha             | anging?         |        |       |        |      |          |          |        |
| Are the wire grommets properly secured  |                                  |                 |        |       |        |      |          |          |        |
| Is the VFD wired correctly, and did you e from the VFD to the supply fan conduit b  | ,                                |                 |        |       |        |      |          |          |        |
| Are the heat exchangers and/or heat stri  | ps clean with no del             | oris in the cor | mpart  | tment | t?     |      |          |          |        |
| SECTION 6: COMPRESSOR PREPARATION   |                                  |                 |        |       |        |      |          |          |        |
|   |                                  |                 |        |       |        |      | YES      | NO       | N/A    |
| Are the crankcase heaters free of any da covered around sharp edges?                | mage, mounted sec                | urely and are   | the v  | vires |        |      |          |          |        |
| Are all suction lines in the compressor ca  | binet properly insul             | ated?           |        |       |        |      |          |          |        |
| Are the digital compressor thermistors o from the top of the line, and are they see |                                  |                 | take   | read  | ings   |      |          |          |        |
|   |                                  |                 |        |       |        | ·    |          |          |        |
| SECTION 7: CONDENSER PREPARATION  |                                  |                 |        |       |        |      |          |          |        |
|   |                                  |                 |        |       |        |      | YES      | NO       | N/A    |
| Are the condenser fan blades roughly an   | 8 <sup>th</sup> of an inch above | the lin of the  | con    | dense | r fan  |      |          |          |        |
| shroud, and do they spin freely?  |                                  |                 |        |       |        |      |          |          |        |
|   |                                  |                 |        |       |        |      | L        |          | ļI     |
| SECTION 8: ELECTRICAL PREPARATION   |                                  |                 |        |       |        |      |          |          |        |
|   |                                  |                 |        |       |        |      | YES      | NO       | N/A    |
| In all cabinets, did you check all wiring, w  | viring harnesses, fus            | es transform    | ers t  | ermir | nal    |      |          |          |        |
| blocks, contactors, etc., to ensure they a  |                                  | ,               | ,      |       |        |      |          |          |        |
| WARNING: If receiving zero to ground  |                                  | heck for loos   | e scre | ews o | r wire | ends | s that c | an drop  | behind |
|   | elays, controllers, to           | -               |        |       |        |      |          | •        |        |
| Did you Ohm out main terminal blocks to of the main three legs of power?            |                                  |                 |        |       | n any  |      |          |          |        |
| Did you Ohm out main terminal block wi  | th disconnect lines o            | connected to    | ancili | re no |        |      |          |          |        |
| terminals are shorted to the unit and sor   |                                  |                 |        |       |        |      |          |          |        |
| Are the overloads for the condenser fans  | set ½ an amp highe               | er than the co  | nden   | ser a | mps    |      |          |          |        |
| listed on the unit nameplates?  |                                  |                 |        |       |        |      |          |          |        |
| SECTION 9: HEATING PREPARATION  |                                  |                 |        |       |        |      |          |          |        |
| What type of heating is in the Flō unit?  | Natural Gas F                    | Propane         | Elec   | tric  |        | Hvd  | ronic    |          | one 🗍  |
|   |                                  |                 |        |       |        | ,    | . 310    | <u> </u> |        |
| Record gas static inlet pressure upstream   | n of the gas valve               |                 |        | "WC   |        |      |          |          |        |



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|  |  |         |                   |             |                |             | YES | NC    | )           | N/A     |  |
|--|--|---------|-------------------|-------------|----------------|-------------|-----|-------|-------------|---------|--|
| Is the unit free fron  | n leaks at the gas pip                       | e fitt  | ings and conne    | ctions?     |                |             |     |       | ]           |         |  |
|  |  |         |                   |             |                |             |     |       |             |         |  |
| SECTION 10: CONTI  | ROLS PREPARATION                             |         |                   |             |                |             |     |       |             |         |  |
|  |  |         |                   |             |                |             | YES | NC    | )           | N/A     |  |
| Is the controller po   | wer wiring wired co                          | rectl   | y?                |             |                |             |     |       | ]           |         |  |
| If applicable, did yo negative terminals?  | e to   |         |                   | ]           |                |             |     |       |             |         |  |
| Are the smoke dete   | ector(s) wired?                              |         |                   |             |                |             |     |       | $\neg \neg$ |         |  |
| ,  | must not terminate s                         |         |                   |             |                |             |     |       | ╛╽          |         |  |
|  | or(s) are not wired, o                       |         |                   |             |                |             |     |       | _           |         |  |
| Did you check the v<br>correct points?   | wiring to the controll                       | er(s)   | and board(s) to   | ensure t    | hey are wire   | d to the    |     |       | $] \mid$    |         |  |
| ·  |  |         |                   |             |                |             |     | _     |             |         |  |
| SECTION 11: ALL CA   | ABINETS PREPARATIO                           | N       |                   |             |                |             |     |       |             |         |  |
|  |  |         |                   |             |                |             | YE  | S     | NO          |         |  |
| Did you check and  | remove all trash and                         | debr    | ris from cabinet  | areas?      |                |             |     |       |             |         |  |
| Did you check in an  | nd behind the drain p                        | an fo   | or debris?        |             |                |             |     |       |             |         |  |
| Did you check all w<br>slicing or pinch poi  | iring inside of cabine                       | et to e | ensure it is secu | ıre, insula | ted or shield  | ed from     |     |       |             |         |  |
| Should or butter both  | Tio Wilere Heeded!                           |         |                   |             |                |             |     | _     |             |         |  |
| Did you check all w  | iring inside of cabine                       | et to e | ensure that it is | neat in a   | ppearance?     |             |     |       |             |         |  |
| Did you input all er section on test she   | rors found and corre<br>et?                  | cted    | during prepara    | tion secti  | on into error  |             |     |       |             |         |  |
|  |  |         |                   |             |                |             |     |       |             |         |  |
|  | IMPORTAN                                     | T: No   | ow energize the   | e unit bef  | ore starting s | section 12. |     |       |             |         |  |
| SECTION 12: ELECT  | RICAL POWERED                                |         |                   |             |                |             |     |       |             |         |  |
| Use Personal Protective Equipment (PPE) and all safety precautions when recording the voltages and amperage. |  |         |                   |             |                |             |     |       |             | age.    |  |
| Record Supply Line Voltage between supply legs  L1 TO L2 (VAC) L1 TO L3 (VAC) L2 TO L3 (VAC)                 |  |         |                   |             |                |             |     |       |             | (VAC)   |  |
|  | LINE VOLTAGE OVER/UNDER % TRIP DELAY RESTAR  |         |                   |             |                |             |     | PHASE | IME         | BALANCE |  |
| DPM SETTINGS   |  |         |                   |             |                |             |     |       |             |         |  |
| Recommended Settings   | Voltage Selected<br>Must Be Set To Nameplate |         | 10%               | 5-Se        | conds          | 2-Minutes   |     |       | 5%          |         |  |
| CRANK CASE   | COMP 1                                       |         | COMP              | 2           | COI            | MP 3        |     | COI   | MP 4        | Į.      |  |
| HEATER AMPS  |  |         |                   |             |                |             |     |       |             |         |  |



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| SECTION 13: SUPPLY FAN POWERED  |  |                      |         |                  |                 |          |    |               |     |              |              |
|---|--|----------------------|---------|------------------|-----------------|----------|----|---------------|-----|--------------|--------------|
|   |  |                      |         |                  |                 |          |    | ,             | YES |              | NO           |
| Using the unit specific Supply Fan VFD up package provided by Flō, did you ch sheet?  | •                                      |                      |         | •                |                 |          |    | [             |     |              |              |
| After the parameters were set, did you  | ı plac                                 | e the VFD i          | n local | mode and         | d press star    | t/run?   |    | [             |     |              |              |
| Did you ensure that the supply fan(s) r<br>hitting the plenum with the supply fan   |  |                      | direct  | tion and th      | nat the whe     | eel is n | ot | [             |     |              |              |
| Did you press stop on the VFD and place VFD control back in remote/auto?  |  |                      |         |                  |                 |          |    |               |     |              |              |
| Did you replace the supply fan(s) access panel and check all the bolts for stripping?   |  |                      |         |                  |                 |          |    |               |     |              |              |
| CECTION 14. CONTROL C DOWERED   |  |                      |         |                  |                 |          |    |               |     |              |              |
| SECTION 14: CONTROLS POWERED  |  |                      |         |                  |                 |          |    | YES           | 5   | NO           | N/A          |
| Did you upload the controls program, setpoint files and firmware update to the unit's controller using the Flō provided upload guide? |  |                      |         |                  |                 |          |    |               |     |              |              |
| Did you verify that the unit's controller date and time are set correctly to the local time zone?                                     |  |                      |         |                  |                 |          |    |               |     |              |              |
| Did you set the clogged filter switch for proper operation and verify that it will not generate nuisance alarms?                      |  |                      |         |                  |                 |          |    |               |     |              |              |
| Using a cold spray or rub test, did you observe a change on the displayed value of Return Air Temp Sensor?                            |  |                      |         |                  |                 |          |    |               |     |              |              |
|   |  | TROLLER<br>ADINGS    |         | ASURED<br>ADINGS | OFFSE<br>APPLIE |          |    | PASS          |     | N/A          |              |
| Space Temp Sensor 1   |  |                      |         |                  |                 |          |    |               |     |              |              |
| Space Temp Sensor 2   |  |                      |         |                  |                 |          |    |               |     |              |              |
| Space Humidity/Dewpoint Sensor 1  |  |                      |         |                  |                 |          |    |               |     |              |              |
| Space Humidity/Dewpoint sensor 2  |  |                      |         |                  |                 |          |    |               |     |              |              |
| Outdoor Air Temp Sensor   |  |                      |         |                  |                 |          |    |               |     |              |              |
| Outdoor Humidity Sensor   |  |                      |         |                  |                 |          |    |               |     |              |              |
|   | C                                      | ONTROLLEI<br>READING | R       |                  |                 |          |    |               | С   | ONTR<br>READ | OLLER<br>ING |
| Supply Air Temp Sensor  |  |                      | F       | Return Air       | Temp Sens       | sor      |    |               |     |              |              |
| Reheat/Reclaim Temp Sensor 1 Reheat/Reclaim Temp Sensor 2   |  |                      |         |                  |                 |          |    |               |     |              |              |
| Space CO2 Sensor 2 Space CO2 Sensor 2   |  |                      |         |                  |                 |          |    |               |     |              |              |
| CONTROLLER MEASURED PASS (1  READINGS READINGS YES  |  |                      |         |                  |                 |          |    | ⊦/- 5)?<br>NO |     | N/A          |              |
| Compressor A Static Suction Pressure  |  |                      |         |                  |                 |          |    |               |     |              |              |
| Compressor A Static Discharge Pressur   | Compressor A Static Discharge Pressure |                      |         |                  |                 |          |    |               |     |              | ]            |
| Compressor B Static Suction Pressure  |  |                      |         |                  |                 |          |    |               |     |              |              |



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|  | CONTROLLER MEASURED PASS ( |                      |          |          |     |         | N/A         |           |
|--|----------------------------|----------------------|----------|----------|-----|---------|-------------|-----------|
|  | READINGS                   | READINGS             | YES      | ı        | NO  |         | IV/A        |           |
| Compressor B Static Discharge Pressure   |                            |                      |          |          |     |         |             |           |
| Compressor C Static Suction Pressure   |                            |                      |          |          |     |         |             |           |
| Compressor C Static Discharge Pressure   |                            |                      |          |          |     |         |             |           |
| Compressor D Static Suction Pressure   |                            |                      |          |          |     |         |             |           |
| Compressor D Static Discharge Pressure   |                            |                      |          |          |     |         |             |           |
| Did you plug in the loose wires to the low-p   | ressure switches           | on each compresso    | or?      | YES      |     | N       | )           |           |
|  |                            |                      | <b>,</b> |          |     | ·       |             |           |
| SECTION 15: ALL CABINETS POWERED   |                            |                      |          |          |     |         |             |           |
|  |                            |                      |          |          | YI  | :S<br>¬ | NO          |           |
| Did you check and remove all trash and deb   |                            |                      |          |          |     |         |             |           |
| Did you input all errors found and corrected on test sheet?  | d during powered           | section into error s | section  |          |     |         |             |           |
|  |                            |                      |          |          |     |         |             |           |
| SECTION 16: SUPPLY FAN VALIDATION  |                            |                      |          |          |     |         |             |           |
| Supply Fan 1 VFD Frequency   | N/A                        | Supply Fan 2 VFD F   | requency |          |     |         | N/A         |           |
|  |                            | 1.6.1                |          |          | ΥI  | ES      | NO          |           |
| Observe the unit while the supply fan is run cabinet doors closed. Is the unit free of air I supply fan, etc?  | -                          |                      |          |          |     |         |             |           |
| SUPPLY FAN(S) AMPS   |                            | T1 FROM VFD          | T2 FRO   | M VF     | D   | T3 F    | T3 FROM VFD |           |
| Supply Fan 1   |                            |                      |          |          |     |         |             |           |
| Supply Fan 2   |                            |                      |          |          |     |         |             |           |
|  |                            |                      |          |          |     |         |             |           |
| SECTION 17: DAMPER VALIDATION  |                            |                      |          |          |     | 1       |             |           |
|  |                            |                      |          |          | YES | NO      | ) N/        | <u>'A</u> |
| Did you prop open the damper cabinet doo   |                            |                      | L        | <u> </u> |     |         |             |           |
| Set all dampers to 0%, verify that all damperand are there no gaps? Readjust the damperand are the dam |                            |                      |          |          |     |         |             |           |
| Set OAD to 100%, verify that the OAD move  |                            |                      |          | ]   [    |     |         |             |           |
| Set RAD to 100%, verify that the RAD move  |                            |                      |          |          |     |         |             |           |
| Set BAD to 100%, verify that the BAD move  |                            |                      |          |          |     |         |             |           |
| Did you turn off the Damper Test Mode and  | d close the dampe          | er cabinet door?     |          |          |     |         | ] [         |           |



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| SECTION 18: HEAT   | TING VALIDAT    | TION    |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
|--|-----------------|---------|---------|-----------------|------------|------|------------------------|-----------------|-----------------------------------|----|---------|------|--|--|
|  | Natural         |         |         |                 |            |      |                        | Propane:        |                                   |    |         |      |  |  |
|  | t Pressure: 6.  |         |         |                 |            |      |                        | essure: 11.0" - |                                   |    | ١       |      |  |  |
| LOW/HI   | i Fire: 1.75"/3 | 3.5 VV  | C (+/-1 | 10%)            |            |      | LOW/HI FIRE            | 2: 5.25 /10.5   | " WC (+/-10%)<br>  YES   NO   N/A |    |         | N/A  |  |  |
| For units equipped with natural gas or propane, did you allow all heating stages to run for at   |                 |         |         |                 |            |      |                        |                 |                                   |    | <u></u> |      |  |  |
| least 5 minutes to   |                 | _       |         | -               |            |      |                        |                 |                                   |    |         |      |  |  |
| GAS VALVE  | MGV1            | MG      | SV2     | MGV3            | MGV4       |      | MGV5                   | MGV6            | MGV                               | 7  | N       | IGV8 |  |  |
| Low Fire   |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| High Fire  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Record gas full bu   | ırn inlet press | sure u  | ostreai | m of the gas v  | valve      |      | u <sub>1</sub>         | wc              |                                   |    |         |      |  |  |
| ELECTRIC HEAT  | CONT 1          | CON     | NT 2    | CONT 3          | CONT 4     |      | CONT 5                 | CONT 6          | CONT                              | 7  | CC      | NT 8 |  |  |
| Amperage   |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
|  |                 |         |         | L               | L          |      |                        |                 | YES                               | NC | )       | N/A  |  |  |
| If applicable, is he   | eat reclaim op  | peratio | nal?    |                 |            |      |                        |                 |                                   |    |         |      |  |  |
|  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| SECTION 19: COO  | LING VALIDA     | TION    |         |                 |            |      |                        |                 |                                   |    | -       |      |  |  |
| AIR COOLED CONDENSERS AMPS L1 L2   |                 |         |         |                 |            |      | L3<br>(3 PHASE MOTORS) |                 |                                   |    |         |      |  |  |
| Condenser Fan A  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Condenser Fan A  | 3               |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Condenser Fan B  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Condenser Fan C  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Condenser Fan CI   | )               |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Condenser Fan D  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
|  |                 |         |         |                 |            |      |                        |                 | YES                               | N  | 0       | N/A  |  |  |
| Did you confirm to<br>of the fan port?   | hat all conde   | nsers a | are rot | ating in a dire | ection tha | t pı | ulls air from t        | the coil out    |                                   |    |         |      |  |  |
| COMPRESSOR AN  | ЛPS             |         |         | L1              |            |      | L2                     |                 |                                   | L3 | 3       |      |  |  |
| Compressor A   |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Compressor B   |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Compressor C   |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Compressor D   |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
|  |                 |         |         |                 |            |      |                        |                 |                                   | N  | 0       | N/A  |  |  |
| Are the compressors and condenser fans operating correctly based on sound and gauge readouts?  |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Are the contactors for the compressors and/or condenser fans free of chattering or any loud noises that indicate incorrect phasing or compressor damage? |                 |         |         |                 |            |      |                        |                 |                                   |    |         |      |  |  |
| Did you ensure th  |                 |         |         |                 |            |      |                        |                 |                                   | +- |         |      |  |  |
| If you had to over   |                 |         |         |                 |            | ้าด  | )W.                    |                 |                                   |    |         |      |  |  |



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| SUB-COOLING & SUPER HEAT   |   |   |           |   |  |                        |             |            |                 |          |  |             |
|--|---|---|-----------|---|--|------------------------|-------------|------------|-----------------|----------|--|-------------|
|  |   |   |           | YES   | NO   |                        |             |            |                 | YE       | S  | NO          |
| 1. Is the  | e unit under  | a full load "i  | not       |   | 1 1 1 1  |                        | oient ten   | perature   | above           |          | 7  |             |
| unload   |   |   |           |   |  | 80°F?                  |             |            |                 |          |  |             |
| 2. Are a speed?  | =   | ors running   | at full   |   |  | 4. Is retu             | ırn temp    | erature al | oove 70°F       | ?        | $] \mid \mid$                            |             |
| 1) If yo   | u have mark   | ced "YES" to  | all 4 que | estions above,                                  | site conditio                                  | ns meet                | t the crite | ria to per | form a su       | b-coolin | g and                                    | 1           |
| superh   | eat verificat   | ion. Proceed  | with ta   | king initial rea                                | dings and re                                   | cord res               | sults. If a | djustment  | s to the sy     | ıstem aı | е  |             |
|  |   |   |           | rd adjustment.                                  | -  | _                      |             |            |                 |          |  |             |
| 2) If you have marked "NO" to question 1 or 2, and "YES" to questions 3 and 4, unplug the low-pressure switch on the |   |   |           |   |  |                        |             |            |                 |          |  |             |
|  | *   | e not checkir   | ng and v  | ralidate one cir                                | cuit at a tin                                  | ne. Only               | take initi  | al reading | ıs, do not      | adjust t | he                                       |             |
| system   |   |   |           |   |  |                        |             |            |                 |          |  |             |
| 3) If you have marked "NO" to questions 1, 2 and 3, skip the sub-cooling and superheat validation entirely as        |   |   |           |   |  |                        |             |            |                 |          |  |             |
| conditi  | ons are not   | met to do so  | •         |   |  |                        |             |            |                 |          | T\/\ /                                   |             |
| SUPERHEAT  8-15°F  Air C   |   |   |           | SUB-COOLIN<br>Air Cooled 8-3<br>Source Heat F   | 15°F   | REFRIGERANT ADJUSTMENT |             |            |                 |          | TXV<br>STMI<br>re cap<br>re aft<br>istme | o is<br>ter |
| CIRCUIT  | INITIAL<br>READING<br>AFTER 15 MIN<br>OF<br>OPERATION                                       | FINAL<br>READING<br>AFTER<br>ADJUSTMENT<br>(IF<br>APPLICABLE) | CIRCUIT   | INITIAL READING<br>AFTER 15 MIN OF<br>OPERATION | FINAL READING AFTER ADJUSTMENT (IF APPLICABLE) | CIRCUIT                | ADDED       | REMOVED    | AMOUNT<br>(LBS) | CIRCUIT  | YES                                      | NO          |
| Α  |   |   | Α         |   |  | А                      |             |            |                 | А        |  |             |
| В  |   |   | В         |   |  | В                      |             |            |                 | В        |  |             |
| С  |   |   | С         |   |  | С                      |             |            |                 | С        |  |             |
| D  |   |   | D         |   |  | D                      |             |            |                 |          |  |             |
|  |   |   |           |   |  |                        |             |            |                 |          |  |             |
| SECTIO   | N 20: SAFET   | IES VALIDAT   | ION       |   |  |                        |             |            |                 |          |  |             |
|  |   |   |           |   |  |                        |             |            | YES             | NO       | ſ  | N/A         |
|  | While the supply fan is running, did you lift-up the drain pan float switch and did the fan |   |           |   |  |                        |             |            |                 |          |  |             |



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| SECTION 21: WRAP UP  |         |     |                                  |          |        |  |  |  |  |
|--|---------|-----|----------------------------------|----------|--------|--|--|--|--|
|  | YES     | NO  | N/A                              |          |        |  |  |  |  |
| Did you ensure that the factory installed smoke de Flō to advise during the checkout if the jumper is a            |         |     |                                  |          |        |  |  |  |  |
| Did you ensure that all brass caps on the Schrader   | valves  | ar  | e installed and tight?           |          |        |  |  |  |  |
| Are the gas valve covers positioned over the gas v   | alves?  |     |                                  |          |        |  |  |  |  |
| Did you power down the unit for 5 minutes and the overrides entered during the start-up process)?                  | nen pov | wer | tit back up (this will clear any |          |        |  |  |  |  |
| Did you check for and resolve any active alarms in Note any active alarms that could not be cleared i              |         |     |                                  |          |        |  |  |  |  |
| Did you do a final check of the unit for any trash o   |         |     |                                  |          |        |  |  |  |  |
| TAKE THE FOLLOWING IMAGES  |         |     |                                  |          |        |  |  |  |  |
| Unit nameplate   |         |     | Outdoor air hood installation    |          |        |  |  |  |  |
| All sides of the unit with doors closed  |         |     | Supply Fan Motor Nameplate       |          |        |  |  |  |  |
| Supply temp sensor showing location  |         |     | Humidity/dewpoint sensor(s) sh   | owing lo | cation |  |  |  |  |
| Space temp sensor(s) showing location  |         |     | Inside of each compartment in t  | he unit  |        |  |  |  |  |
| Insulated reheat/reclaim sensor  |         |     | LVTB field connections (Close Up | o)       |        |  |  |  |  |
| Controller(s) alarm status screen(s)   |         |     | Controller(s) main menu showin   | g time & | date   |  |  |  |  |
| Controller(s) network info screen(s)  Controller information screen (i-Controller 2.0)                             |         |     |                                  |          |        |  |  |  |  |
| Submit all images above and either the digital copy of your completed form or images of your completed form to     |         |     |                                  |          |        |  |  |  |  |
| startup@systemsflo.com before calling into your checkout appointment.  |         |     |                                  |          |        |  |  |  |  |
| Call into the Flō start-up checkout appointment line (888-598-1198 Opt. 2) when you are done the start-up and have |         |     |                                  |          |        |  |  |  |  |



**Technician Company** 

**Technician Name** 

#### Field Start-Up Report

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Title: Start-Up Audit Form Air Cooled Condenser (6-70 Ton)

| SECTION 22: START-UP TECHNICIAN NOTES   |
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| CECTION 22 CITE DEPARTURE   |
| SECTION 23: SITE DEPARTURE  Defense departing site, you must call the FLE chackent line (SSS FOS 1108 Opt 3) at your called a presint report time.  |
| Before departing site, you must call the Flō checkout line (888-598-1198 Opt. 2) at your scheduled appointment time.  If you do not have a checkout scheduled, call your Flō Coordinator. |

**Technician Phone** 

**Check Out Code** 



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Title:

| SECTION 24: FIELD ERROR REPORTING |                        |                                |
|-----------------------------------|------------------------|--------------------------------|
| DESCRIPTION OF THE ERROR FOUND    | ARE PARTS<br>REQUIRED? | WAS THE ERROR CORRECTED? (Y/N) |
|                                   |                        | COMMECTED: (1714)              |
|                                   |                        |                                |
|                                   |                        |                                |
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Title:

| DESCRIPTION OF THE ERROR FOUND | ARE PARTS | WAS THE ERROR    |
|--------------------------------|-----------|------------------|
| DESCRIPTION OF THE ERROR FOOND | REQUIRED? | CORRECTED? (Y/N) |
|                                |           |                  |
|                                |           |                  |
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