CHECKLIST JHI15001SS11X0000 JH/MM 1,500

Precheck:

| \boxtimes | 1) | Mark sight glass at notches in sheetmetal | | |
|---------------------|----|---|--|--|
| | 2) | Condensing Unit model: | | |
| | , | #FTAH-A150-CFV-020, 230/1/60, R134A | | |
| | | #FTAH-A150-TFC-020, 230/3/60, R134A | | |
| | | #FTAH-A150-TFD-020, 460/3/60, R134A | | |
| 3) Expansion valve: | | | | |
| | , | ⊠ EBFJ-B-CP60 | | |
| \boxtimes | 4) | Wire locations are correct and tight | | |
| | 5) | Pump: | | |
| | , | . 104B240F11BC 1PH 4 GPM | | |
| | | ◯ 104B240F11BC 3PH 4 GPM | | |
| | | ☐ 1MS1E4D4 1PH 10 GPM | | |
| | | ☐ 1MS1E5D4 3PH 10 GPM | | |
| \boxtimes | 6) | Refrigeration and plumbing component flow | | |
| | , | correct. | | |
| \boxtimes | 7) | All nuts, conduit, bolts, etc are tight. | | |



| Machine Hookup and Test: | | | | | | |
|--|--|--|--|--|--|--|
| \boxtimes | 1) Assure unit has been evacuated. | | | | | |
| 🖂 2) Charge unit with 3 Lbs. R134A refrigerant | | | | | | |
| | Refrigerant Charge: <u>3</u> Lb. <u>o</u> oz. | | | | | |
| | 3) Hookup Power: (Pofor to manufacturer ID number) | | | | | |
| | (Refer to manufacturer ID number) 230/1 volt power 08LSF9A1 | | | | | |
| | 230/3 volt power 08LSF9B1 | | | | | |
| | ◯ 460/3 volt power 08LSF9C1 | | | | | |
| \boxtimes | 4) Check rotation and install pump rotation | | | | | |
| | sticker and flow directional arrows. | | | | | |
| \boxtimes | 5) Set pump to: | | | | | |
| | ☐ 4 GPM, 50 PSI Standard Pump | | | | | |
| | 10 GPM, 35 PSI High-Flow Pump 6) Pump amps below: | | | | | |
| | 230/1/60 Standard 2.8 Amps | | | | | |
| | 230/1/60 High-Flow 7.6 Amps | | | | | |
| | ☐ 230/3/60 Standard 2.0 Amps | | | | | |
| | 230/3/60 High-Flow 3.6 Amps | | | | | |
| | ☐ 460/3/60 Standard 1.0 Amps ☐ 460/3/60 High-Flow 1.8 Amps | | | | | |
| | 7) Condensing Unit amps below: | | | | | |
| | 230/1/60 18.6 Amps | | | | | |
| | 230/3/60 9.4 Amps | | | | | |
| | | | | | | |
| \boxtimes | 8) Suction pressure 35-50 PSI | | | | | |
| \boxtimes | • Suction pressure: <u>35</u> | | | | | |
| | 9) Discharge pressure 100-200 PSI • Discharge pressure: 150 | | | | | |
| | 10) Suction line temperature: 56 | | | | | |
| | 11) Discharge line temperature: 112 | | | | | |
| | | | | | | |
| \bowtie | 12) Unit off at 65°F, on at 68°F | | | | | |
| Ш | 13) For units with the Hot Gas Option (-I), hot gas on at 65°F, off at 66.5°F. | | | | | |
| | 14) Super heat 15°-20° | | | | | |
| | • Super heat: 16 | | | | | |
| \boxtimes | 15) Subcooling 2° - 5° | | | | | |
| | • Subcooling <u>4</u> | | | | | |
| \boxtimes | 16) Low pressure switch @ in 27-37, out 5-15 | | | | | |
| \boxtimes | 17) High pressure switch @ 320 PSIG on 230/1/60 units | | | | | |
| | @ 360 PSIG on 230-460/3/60 units 18) Ambient Temperature: 73 | | | | | |
| | 18) Ambient Temperature: <u>73</u> | | | | | |
| When Testing with Water | | | | | | |
| | 17) Temperature Delta 9.0°F (w/4gpm pump) | | | | | |
| | Temperature Delta 3.6°F (w/10gpm pump) | | | | | |
| | Delta °F: | | | | | |
| | 18) Check capacity, 18000 BTU's/hr Calculate capacity: Delta x GPM x 500 = | | | | | |

| when Testing with 30% Glycol 17) Temperature Delta 7.6°F (w/4gpm pump) Temperature Delta 3.0°F (w/10gpm pump) Delta °F: 10.2 18) Check capacity, 14400 BTU's/hr Calculate capacity: Delta x GPM x 474 = 19,339 |
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| CE Testing |
| 1. Ground continuity test. (EN60204-1 20.2) GROUND CONTINUITY TESTER CALIBRATION EXPIRES |
| Ground continuity tested between the grounding lug marked P.E. and each of the following bonding points. Test is performed successfully if it has less than 0.1 ohms at ten amps for at least 10 seconds. |
| The bonding point at the compressors. The bonding point at the pump. The bonding point at the fan. The bonding point at the main enclosures terminal blocks. On a piece of dinrail on the main enclosure panel. The bonding point at all solenoids. The bonding point at all control devices.(Flow,Float Switches) Visually inspect all grounding wires and check for tightness |
| 2. Insulation Resistance test. (EN60204 20.3) |
| INSULATION RESISTANCE TESTER CALIBRATION EXPIRES The insulation resistance measured at 500 V d.c. between the power circuit conductors and the protective bonding circuit shall not be less than 1 MegaOhm. |
| The resistance between the power wires and the ground bonding wire is more than 1Mohm in the connection to: The compressors The pumps The fans. |

| Date | Change | Engineer | |
|-------|--|-------------------------|-----------|
| | l) Leak check 2) Drain water from tank and ro 3) Drain strainer on low flow 4) Unhook from test stand 5) Fill out Test Stand Sign Of | units. | computer |
| After | · Test: | | |
| of th | t test successfully performed ne following: Below the main disconnect. On all compressors after the contact on all pumps after the contact on all fan motors after the contact on all fan motors after the contact of th | | l to each |
| | HYPOT CALIBRATION EXPIRES | | |
| | Before performing Hypot test, | all fuses are installed | |
| 3. | Hypot test. (EN60204-1 20.4) | | |

CJS

4/28/14

Updated format.