

CheckList List

- 01: INSPECTION: TRANE RTU'S
- 09: TRANE SETTINGS



CHICK-FIL-A TEMPLATE

CheckList Information

Name : 01: INSPECTION: TRANE RTU'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/01/2024 - Will Turnbough - National TAB

CheckList Item Details

OVERALL INSPECTIONS

-Units are level? (Use a bubble level)

Comment:

-OA filters are installed?

Comment:

-Reliatel: Are the heat exchanger baffles located at the very end of the discharge (against screen)

Comment:

-All doors and panels are free from damage?

Comment:

-Any other physical damage to note?

Comment:

-Clean filters installed inside the units?

Comment:

MECHANICAL CHECKS

-Reliabel: Is the high static drive kit installed on units where it is specified? (Typically kitchen RTU)

Comment:

-Reliabel: Is the belt a sufficient size that is included with the high static drive kit?

Comment:

-GFI outlet (if installed) is wired and operational?

Comment:

-Is the smoke detector installed/relocated to the correct compartment per remark in the RTU schedule?

Comment:

-Grommets installed for GFI outlet wiring? (If applicable)

Comment:

-Gas piping installed and valves turned on?

Comment:

-Gas piping grommets are installed?

Comment:

-Gas piping is painted with coat Aluminum base paint (should also have a coat of zinc rust primer but likely won't be visible). As per Plumbing specs

Comment:

-Piping (condensate and gas) does not obstruct doors or access panels?

Comment:

-Hail Guards are installed on the condenser coils

Comment:

-Condenser coil is clean and fins are straight?

Comment:

-Economizers are functional?

Comment:

-Economizer wiring harness is plugged in correctly (Wire colors match on each side of plug)

Comment:

-Evaporator coil is clean and fins are straight?

Comment:

-Turn off unit and spot check high voltage wiring lugs are tight, no loose wires, etc.

Comment:

-Are the power exhaust fan installed on units where specified?

Comment:

-Take cover off of the power exhaust fan. Does the blower spin freely and do all wires appear to be landed?

Comment:

-Inside the mixed air compartment is the power exhaust shroud assembled correctly including the backdraft damper?

Comment:

PLENUM CURB CHECKS (OPEN SUPPLY AIR SIDE PANEL)

-Do the joints of the curb appear to be sealed well? Is there any gaps or leakage noticeable where the RTU meets the curb?

Comment:

-RTU/curb crossmembers are not conflicting? I.e., is the hat channel placement correct on the cross member?

Comment:

-Is the insulation secured in place with stick-pins and adhesive? Make sure insulation doesn't peel back.

Comment:

-Is there sheet metal angle "nozing" covering insulation at ductwork drops/connections?

Comment:

-No high or low voltage wiring is visible inside the discharge air plenum? (Should be MC cable or routed through conduit only)

Comment:

CONDENSATE DRAINS - CHECK THAT THEY MATCH DETAIL IN THE PLUMBING DRAWINGS

-Condensate drains are installed and have union on both sides of P-trap? (per plumbing drawings)

Comment:

-Cleanout plug is installed for the lower T fitting

Comment:

-Higher T fitting is open to the atmosphere and the top of the opening is below the pipe connection to the RTU?

Comment:

-Do condensate lines for each RTU match the sizing shown on the plumbing rooftop drawing? (There should be no reduction in size at any point including the P-trap.)

Comment:

-Condensate drains are properly pitched to drain away from the units?

Comment:

-Condensate drains have at least 2" rise between connection to unit and the pipe after the P-trap?

Comment:

GENERAL LOW VOLTAGE WIRING

-Grommets are installed around penetrations for wiring that is not in conduit?

Comment:

-Are there any flash codes present on the economizer?

Comment:

-Are there any loose wires inside the unit that have not been connected to sensors?

Comment:

RELIA TEL LOW VOLTAGE WIRING

-Wires landed to R, G, Y1, Y2, W1, W2, C on thermostat terminal strip?

Comment:

-Wires landed at P and P1 on the Reliatel Economizer Module and at P and P1 in the Suncoast panel

Comment:

-Wire from " - " terminal at the humidity sensor landed to terminal 19 "RH-" on the NLTB board.

Comment:

-Wire from " + " terminal at the humidity sensor landed to terminal 18 "RH-" on the NLTB board.

Comment:

-Wire for humidstats is landed at 24VAC R terminal on the "Sensor" strip?

Comment:

-Wire landed to terminal 6 "ESTOP" on the LTB1 terminal strip.

Comment:

-Is the factory 24V jumper between terminal 5 and 6 removed on the LTB board for ESTOP?
(Note: the jumper looks like a small metal bar)

Comment:

SYMBIO WIRING

-Wires landed at J20 for economizer operation and at P and P1 in the Suncoast panel

Comment:

-Wire landed from DI1 in Suncoast panel to EM Stop at terminal J18

Comment:

-Wires landed at R, Y1, W1/O, G, W2, Y2, and GND at J21 terminals

Comment:

-Wire from "+" terminal at the humidity sensor is landed to 24VDC terminal at J23

Comment:

-Wire from "-" terminal at the humidity sensor is landed to "Humidity" terminal at J23

Comment:

OTHER

-Laminated copy of the control wiring is included in each RTU electrical cabinet as per the Controls M Sheet

Comment:

-Has mechanical contractor provided a second set of filters for owner (should be stored in space somewhere)

Comment:

-Annunciators are the specified Suncoast Keyless type?

Comment:

-All annunciators are labeled?

Comment:

SEISMIC DETAILS

-Seismic clips attached to both sides of the unit and secured with screws if specified in the RTU schedule remarks?

Comment:



CHICK-FIL-A TEMPLATE

CheckList Information

Name : 09: TRANE SETTINGS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 08/28/2024 - Will Turnbough - National TAB

CheckList Item Details

FAT (Fresh air tempering)

Confirm on plans if fresh air tempering should be installed? (typically mandatory in Northeast, Midwest, Northwest, VA, KY, and some areas of NC/TN) Then complete the following items if applicable

Comment:

Fresh air tempering sensor is installed in the supply duct after the first 90 degree elbow.

Comment:

Penn Controller is installed and functional

Comment:

ICM104 timer is installed and set to 4 mins

Comment:

RIB relay is installed

Comment:

Penn controller is set heat cut-out (OFF) at the following setpoints: Kitchen: 65 Drive-thru / Serving: 67 Dining / Play Area: 68 BOH: 67

Comment:

Penn controller is set for heat cut-in (ON) at the following setpoints: Kitchen: 60 Drive-thru / Serving: 62 Dining / Play Area: 63 BOH: 62

Comment:

Penn controller is set for SF= 0 sensor failure relay de-energize

Comment:

RELIA TEL SETTINGS

Set dehumidification setpoint at the RTOM circuit board using the "DEHMID" potentiometer. Set to 60% RH by adjusting it to 3 o'clock position approximately. Setting can be verified through TDS touchscreen or by reading potentiometer output, should be 2.18 DC volts.

Comment:

Mark the final dehumidification potentiometer position with white out or paint

Comment:

Typically, CFA Reliatel Units are multi-speed (VAV). Is the unit setup for VAV?

Comment:

If the unit was found set up for VAV, then the outside air damper must be set for all three fan speeds (high, med, and low)

Comment:

"Exhaust SP" dial is set to approximately 50% or higher so that the power exhaust stays off normally? (Park setpoint with whiteout/paint) NOTE: Reliatel Units at CFA typically do not have power exhaust.

Comment:

SYMBIO SETTINGS

Dehumidification is set to 60% with 3% offset for Unoccupied & Occupied.

Comment:

Minimum fan speed is set to 100%

Comment:

Supply Fan Compensation is Disabled.

Comment: