



Shake Shack (Lee's Summit) - Commissioning

CheckList Information

Name :	(FPT) - PACKAGED RTU (DINING)	Status :	NotSubmitted
Assigned Organization :	National TAB	Asset :	
Requesting Organization :	National TAB		

CheckList Item Details

THERMOSTAT PROGRAMMING AND CALIBRATION

Occupied Time	8:30 AM
Occupied Heat setpoint - Cooling Setpoint - Dehumidification Setpoint	68 / 73 / No dehumidification
Unoccupied Time	10:30 PM
Unoccupied Heat Setpoint - Cooling Setpoint - Dehumidification Setpoint	60 / 80 / No Dehumidification
Space Sensor (TSTAT) Temp and RH reading / Commissioning Agent Space Temp and RH reading	74 space Avg Thermostat Reading: 70.7 (Window Sensor CxA reading) 71 (Dining Corridor Sensor CxA reading): Sensors are out of calibration by +3.5 degrees
Sensor Calibration Is within +/- 1 degree	Fail

CONTROL WIRING VALIDATION

Economizer Dry Bulb sensor wired	Pass
Economizer Dry Bulb sensor operational	Pass
Occupied stat wired correctly	Pass
Thermostat Wired correctly (R,C,Y1,Y2,W1,W2)	Pass
Humidity Sensor Wired correctly	No dehumidification specified for RTU's at this location

CALIBRATION & PROGRAMMING

Local Weather Data Temperature	63 degree
RTU-Honeywell setpoint: Economizer DB StPt, Reading Accuracy (+/- 2 degrees / 10 minute time to calibrate to actual reading)	Occupied : (Pass) Control :(Pass) 55 degree, Sensor is +1.4 degree from reading
Comment	

RTU-Honeywell setpoint: MAT StPt, Reading Accuracy (+/- 2 degrees / 10 minute time to calibrate to actual reading)	Occupied : (Pass) Control :(Pass) 53 degree, Sensor is within + 2 degrees (full cool)
Comment	
RTU-Honeywell setpoint: MAT Low StPt	45 degree
RTU-Honeywell setpoint: Low T Lockout	32 degree
Ventilation Mode Sequence	Occupied : (Pass) Control :(Pass)
Comment	Fan Low speed, OA damper to low speed TAB position, Space temp satisfied
Unoccupied - Fan Auto	Unoccupied : (Pass) Control :(Pass)
Comment	Fan off, OA damper shut, Space temp satisfied
Stage 1 Heat Sequence	Occupied : (Pass) Control :(Pass)
Comment	Fan high speed, OA damper to high speed TAB position, Stage 1 heat energized (W1: 22.7v), Thermostat Display "Heat on"
Stage 2 Heat Sequence	Occupied : (Pass) Control :(Pass)
Comment	Fan high speed, OA damper to high speed TAB position, Stage 2 heat energized (W1: 22.1v, W2: 22.1v), Thermostat Display "Heat on 2"
Heat Sequence (Unoccupied)	Unoccupied : (Pass) Control :(Pass)
Comment	Fan high speed, OA damper opens when heat cycles on (needs to stay closed)
Stage 1 Cooling Sequence	Occupied : (Pass) Control :(Pass)
Comment	Fan low speed, OA damper to low speed TAB position, Stage 1 cool energized (Y1:23.4 v), Thermostat Display "Cool On"
Stage 2 Cooling Sequence	Occupied : (Pass) Control :(Pass)
Comment	Fan high speed, OA damper to high speed TAB position, Stage 2 cool energized (Y1:23.1v, Y2: 23.1v), Thermostat Display "2 Cool On"
Cooling Sequence (Unoccupied)	Unoccupied : (Pass) Control :(Pass)
Comment	Fan speed, OA damper opens when cooling cycles on (needs to stay closed)
Stage 1 cooling Temperature	Occupied : (Pass) Control :(Pass)
Comment	56 deg [mix air 69 deg]
Stage 2 cooling Temperature	Occupied : (Pass) Control :(Pass)
Comment	44 deg [mix air 69 deg] (MAT low temp alarm)

Stage 1 Heating Temperature	Occupied : (Pass) Control :(Pass)
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Comment	113 deg (approx 41 deg T-Rise)
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Stage 2 Heating Temperature	Occupied : (Pass) Control :(Pass)
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Comment	132 deg (approx 60 deg T-Rise)
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OUTDOOR AIR / RELIEF DAMPER

Open Free cooling and confirm OA damper opens 100% RA air damper closes 0% and relief fan energizes	Occupied : (Pass) Control :(Pass)
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OA damper opened 100%, Relief Fan energized

Comment

OCCUPANCY VALIDATION

Place the thermostat in "unoccupied" - Does the OA damper close fully	Unoccupied : (Pass) Control :(Pass)
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Comment

Stage cooling and Heating in "unoccupied" - Does the unit properly stage and does the OA damper remain closed	Unoccupied : (Pass) Control :(Pass)
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OA damper opens on cooling and heating being energized

Comment

Place the thermostat in "Occupied" - Does the OA damper open to the TAB preset minimum position in High speed (heat stage 1, heat stage 2, cooling stage 2)	Occupied : (Pass) Control :(Pass)
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Comment

Place the thermostat in "Occupied" - Does the OA damper open to the TAB preset minimum position in ventilation or Stage 1 cooling mode, Low speed	Yes
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Yes
