HVAC Troubleshooting & Diagnosis

Facilities / Building · https://roundupsaloon.com/docs/ac-troubleshooting-diagnosis/

If the bar is warmer or colder than you think it should be, given the current thermostat setting:

THERMOSTAT

Verify that the thermostat that controls the affected area is set to "ON" and "COOL" (or "HEAT" in the winter). Set the temperature on the thermostat to a value that will activate the AC (or heat). This will ensure that the system is *supposed* to be running.

AIR BLOWING AT AIR REGISTERS

Determine whether air is blowing out of the registers associated with the area in question. The air should be cooler [COOL] or warmer [HEAT] than "ambient" temperature (the temperature of the surrounding air).

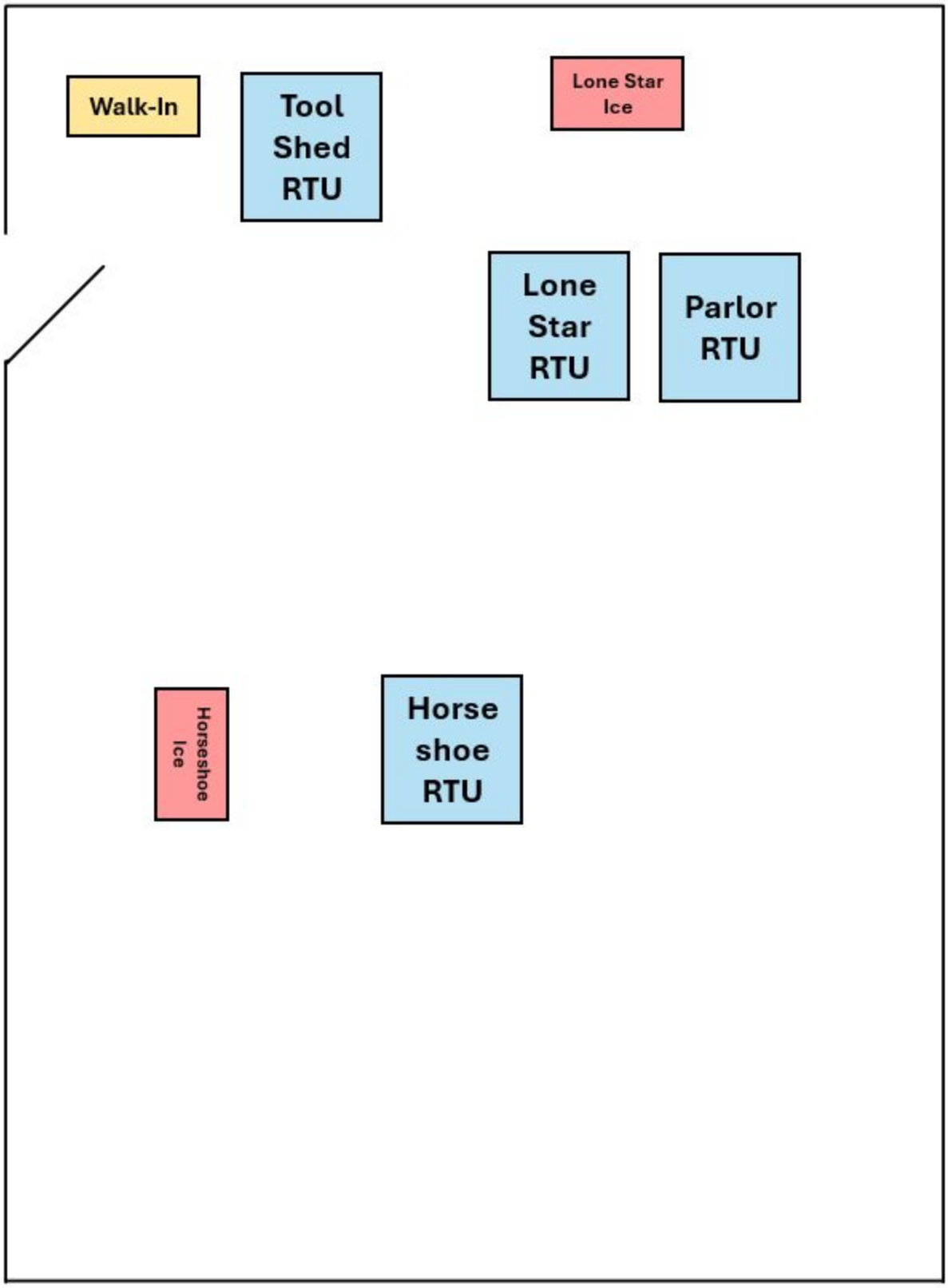
NOTE: It may take 2-3 minutes for the blower to kick on after you've adjusted the thermostat.

If no air is blowing out of the register, go into the Manager's Office and verify that the circuit breaker for the RTU is not tripped (these will be labeled). If the circuit breaker is tripped, attempt to reset the breaker **ONE TIME**. If the blower fan is not pushing air and the circuit breaker is either in the ON position or it cannot be reset, report that to repairs@roundupsaloon.com.

NOTE: The vent in the DJ Booth is actually supplied by the Roof Top Unit (RTU) controlled by the thermostat in the *Parlor*.

Roof-TOP UNIT (RTU)

Take the ladder from the Liquor Room and head up to the roof to the RTU that cools/heats the area. This diagram shows the relative position of the RTUs to the thermostat by which is is controlled.


Walk-In
Tool Shed RTU
Lone Star Ice
Lone Star RTU
Parlor RTU
Horseshoe Ice
Horse shoe RTU

RTU - MASTER ELECTRICAL CUT-OFF

Find the master electrical cut-off switch on the RTU (it looks like an arm of a slot machine). If the master cut-off switch for the RTU is OFF, reach out to managers via group text and determine with the daytime managers that it's not off for a reason. DO NOT TURN THE ELECTRICAL CUT-OFF SWITCH ON OR OFF WITHOUT CLEARING IT WITH A DAYTIME MANAGER (it may be off for a reason).

RTU - [COOL] Verify COMPRESSOR SOUND

Listen for the sound of the compressor. This will be a ***loud***, low-pitched buzzing, grinding whirr sound. If the compressor isn't on, report that to repairs@roundupsaloon.com.

RTU - [HEAT] Verify Gas Supply

Verify that the gas valve is in the ON position. The gas valve has a yellow handle and is in-line close to the yellow, flexible gas line that runs into the RTU. The "ON" position is indicated by the handle parallel to the gas line. "OFF" is indicated by the handle perpendicular to the gas line.

NOTE: The gas line to the RTU that supplies Station 3/4 is currently OFF and should not be turned on. There's a crack in the heat exchanger on that unit.

RTU - [COOL] VERIFY CONDENSER FANS ON

The RTU's condenser fans are on the *opposite* side of the electrical cut-off. Climb up on the ladder your brought up with you and look at the condenser fans. Verify that they are all turning. If one or more fans are not turning, report that to repairs@roundupsaloon.com.

Verify that the air coming from the top of the condenser fans is warmer than the ambient air (it should be, as this is the heat that the unit is removing from the building).

CONCLUSION

There's not a lot that can be done regarding HVAC malfunction during the course of the night. But these diagnosis/troubleshooting steps - and subsequent reporting of your findings to repairs@roundupsaloon.com will allow us to get a ticket submitted early the next morning so we can get it repaired as fast as possible.