

RAINBOW BEND HOMEOWNERS ASSOCIATION

JUNE 18, 2025

BRYCON

UPDATE ON THE MOBILE HOME HVAC SYSTEMS

Currently BRYCON is waiting on information from the manufacturer regarding the sound level of the HVAC System

In conjunction with NV Energy, **Brycon has set up a special phone number for warranty service on the gas appliances installed or converted during this project. This also includes AC systems. The number is 775-453-6432.** Moving forward, **all calls for warranty service should be directed to this number 775-453-6432 as the contact point for all warranty service calls.** The number provides a recorded message and will collect voicemails and text messages which will be responded to within 2 business days at the latest. (Usually, we will respond the same day the message is placed on the service call line.) **Service call appointments will be made for Tuesdays and Thursdays during regular business hours.** This warranty service call line will be in effect to the end of the one year warranty period, that is, through April 30, 2026.

ADDITIONAL INFORMATION REGARDING THE NOISE PROBLEM WITH THE FURNACES

The excessive noise is produced, not by the equipment operation, but by the turbulence of air movement (a minimum of 800 cubic feet per minute (CFM)) into and through the equipment.

1. High Velocity in Constrained Spaces

Furnace cabinets in manufactured homes are typically more compact than those in site-built homes, with tighter ductwork and smaller return air openings. When 800 CFM of air is forced through these constrained pathways, the velocity of the air increases, even sometimes exceeding recommended design criteria. High-velocity airflow can create whistling, roaring, or whooshing sounds as it passes through narrow sections, bends, or restrictions.

2. Turbulent Airflow

As the air moves through filters, around corners, across the blower wheel, and through transition fittings, it becomes turbulent. This turbulence disrupts the smooth (laminar) flow of air, causing chaotic eddies and rapid pressure fluctuations, which in turn create noise. The greater the turbulence, the louder the resulting sound.

One suggested solution is to reduce the fan speed and thus reduce the air flow. This raises the possibility of the cooling coil icing up, and stopping all cooling. Brycon is still waiting for the manufacturer to respond to their inquiry regarding the noise issue.