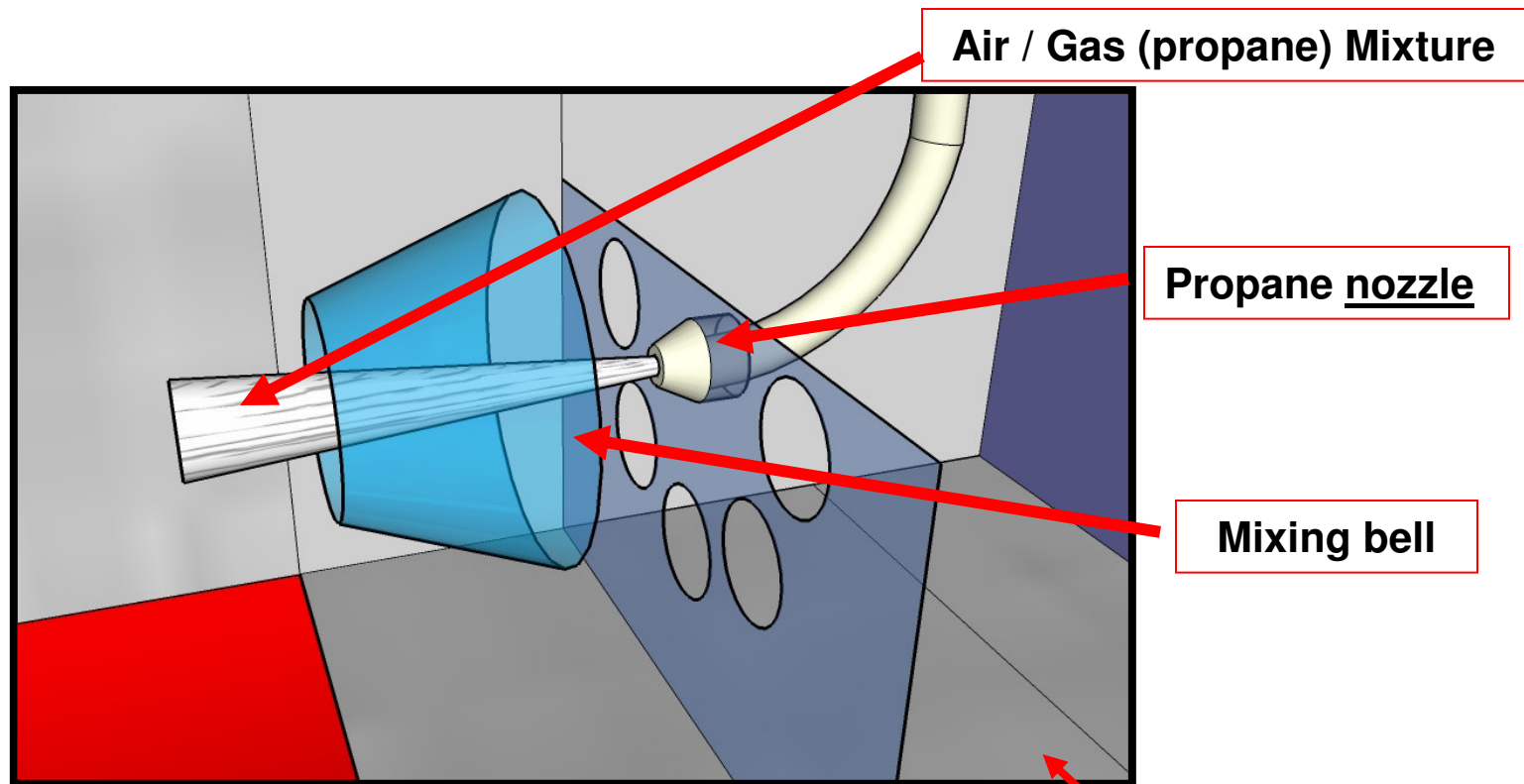


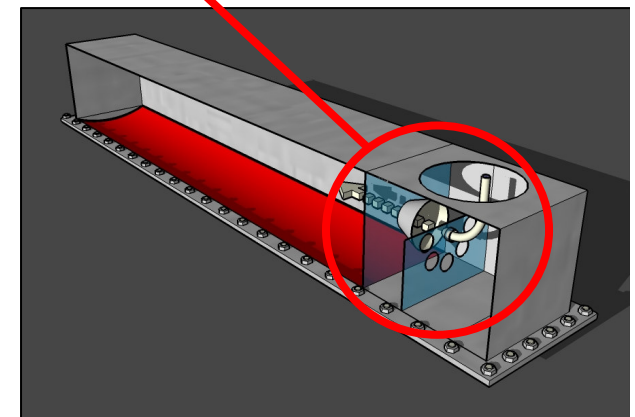
How the IR Heaters work

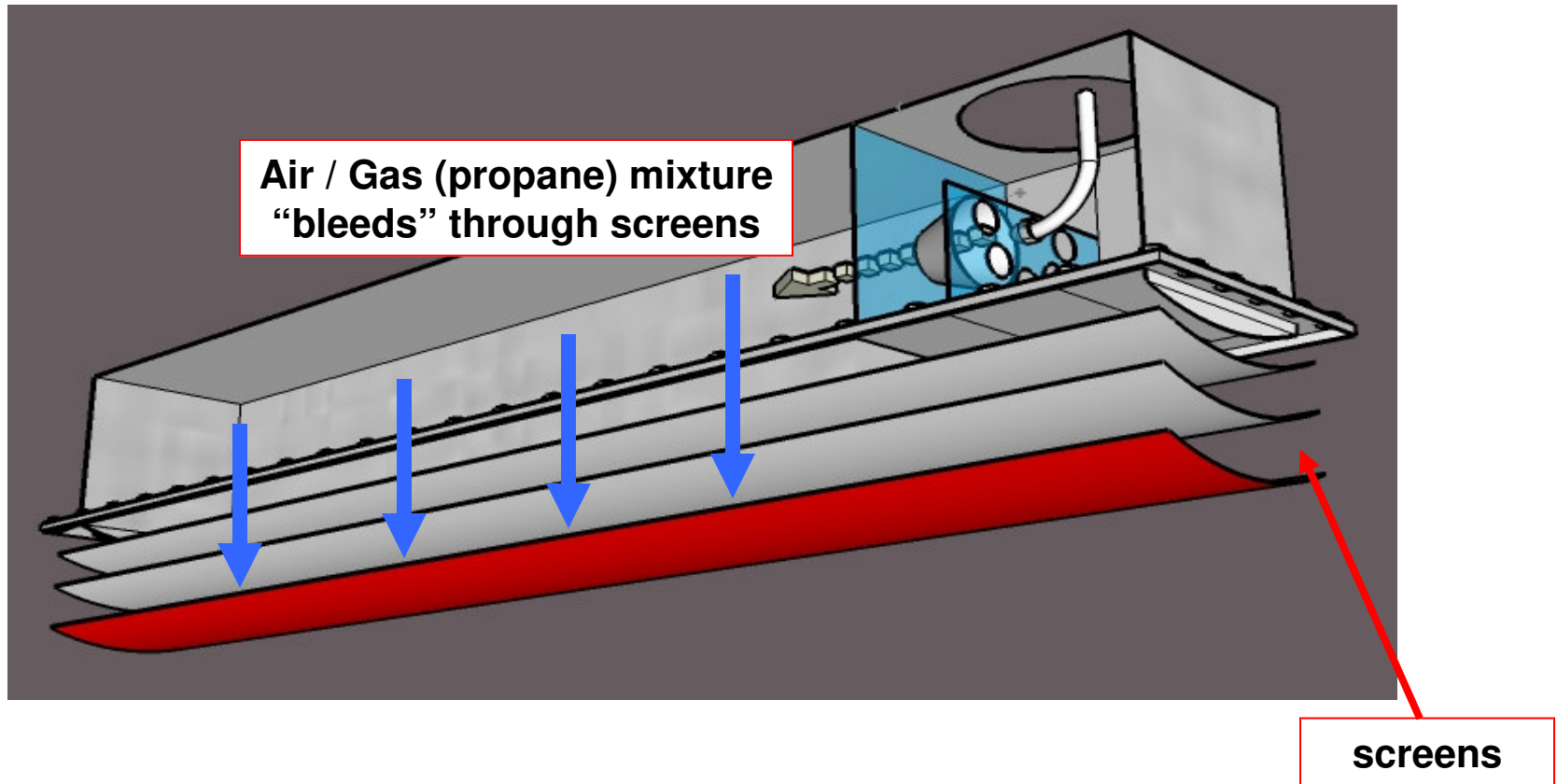


Propane is injected through the nozzle into the mixing bell where it mixes with air.

The proper pressure is important as it affects the air / gas ratio. The regulated pressure (under hood) should be:

- Old burners/nozzles - 4-6 psi
- New high pressure nozzles (painted red) - 7 psi





Propane and Air mixture “bleeds” through fine mesh screens and combusts on the outside of the last screen. If the flame is blown back, or finds a source of ignition before the last screen, flashback occurs. When flashback occurs, it destroys the screens, allowing areas for gas to build and ignite which will cause flashback more often. .

- **Old burners (pre 2006) – 3 layers of screens.**

- 1 inconel screen [high temp] + 2 screens)

- **New burners – 5 layers of screens.**

- 3 inconel [high temp] + 2 screens)