

DXAIR INDOOR POOL DESIGN GUIDELINES CEILING FANS TO INCREASE AIR FLOW



Stratification is common occurrence in all indoor pool room environments. Much like a pot of water boiling on a stove, the moisture in a pool room rises towards the ceiling areas where it stratifies. Left uncontrolled, this moisture would soon saturate ceiling areas, penetrating the building materials. Signs of water damage and/or corrosion to windows and skylights with metal framing in these areas may also become apparent.

This is one of the reasons that (A) the Return Air Duct grille in a pool room is installed at a high point in the room, not at the deck level. Negative pressure is required, and when ductwork cannot be installed to service these areas (B) ceiling fans are utilized to help break up stratification.

Air circulation can be increased to these critical areas with the installation of ceiling fans **BLOWING UP**—not down—in a pool room. These fans should be set to continually run. Ensure the ceiling fans paddles are large enough and are strategically placed to move air into skylights.

The National Electric Code states that ceiling fans must be installed a minimum of 7 feet above pool water or may not be used in this environment.