



LILY'S PAD AZ

Tempe, Arizona

APPLICATION:

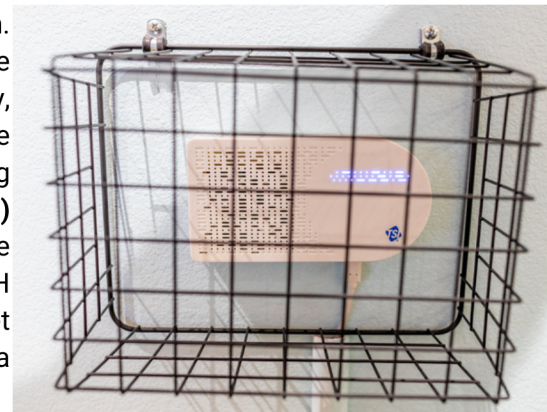
The Lily's Pad AZ project, aimed at safeguarding immunocompromised children in a playground setting, involved major players like Architekton, Applied Engineering, and Varitec Solutions in modernizing IAQ through the introduction of Building4Health (B4H) monitors. This crucial upgrade in an existing building ensured a continuously monitored, safe environment for the children's health.

PROJECT TEAM:

Architect: Architekton
Mechanical Engineer: Applied Engineering

DESIGN & PRODUCT SOLUTIONS

Lily's Pad AZ is a safe haven for immunocompromised children. Inspired by leukemia patient Lily, the project was a collaborative effort between Architekton, Applied Engineering, Baylor University, and Varitec Solutions. Understanding the critical need to validate the safety of the building's play area, Applied Engineering recommended using Dr. Stephanie Taylor's **Building4Health (B4H)** technology. These track various contaminants, providing real-time data. Trending in real-time space air contaminants, B4H technology assigns a building health score based on the discreet percentage levels of the contaminants ensuring the play area remains safe for the children.



Lily's Pad features technologically advanced systems to prioritize clean air. Applied Engineering designed an HVAC system incorporating **ceiling-mounted, fan-powered HEPA filters** ensuring excellent air distribution and a precisely controlled humidity system to comply with ASHRAE guidelines. This approach helps minimize potential infection risks for the children. Alongside these features, Lily's Pad has strict cleaning procedures and offers emotional and mental health support resources for families.

Despite challenges like fundraising difficulties during the pandemic and relocating the facility, Lily's Pad is now a reality. The project demonstrates the power of collaboration and compassion while setting a new standard for designing spaces for immunocompromised children. The concerted efforts of all the entities involved in creating Lily's Pad make it a model for future projects serving vulnerable populations. Its legacy ensures that children like Lily receive not just a place to play, but the comprehensive support they need to thrive.



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