

Highpointe Church

Designed and Installed by Egnuity of Tulsa



When Highpointe Church in Oklahoma City was struck by lightning in a severe electrical storm, demolishing the main building's electrical systems and all connected lighting and audio equipment, its leaders didn't hesitate. They called on 35-year veteran systems integrator and designer Egnuity, headquartered in Tulsa, to design and install a new system for the 1980s-vintage, 680-seat sanctuary, including a state-of-the-art PA system from Fulcrum Acoustic.

Challenges

As an Assembly of God church with contemporary services featuring a seven- to nine-piece praise band, Highpointe required a very powerful and precise system that could focus sound on the seating areas to maximize clarity.

Solution

To build the sound system with the requisite high SPLs and precise directional control, the Egnuity team chose three custom-built Fulcrum LCR clusters, each with three powered DX1565AC dual 15 inch cabinets with 60° x 45° dispersion – an unusual configuration. DX Series 3-way loudspeakers provide superior output and pattern control in an enclosure size that would typically house a conventional 2-way system. Each of the nine cabinets is driven by two 1,500 watt modules for a total of 3,000 watts per channel.

Four powered FA28ac dual 8 inch coaxial loudspeakers were deployed as front fills, and four dual 15 inch TS215 direct-radiating subwoofers were tied into the center cluster. For sub-lows, four TS221 dual 21 inch direct-radiating subwoofers were ground stacked on the left and right of the stage. The end result of this massive and challenging force majeure-caused AVL overhaul is that Fulcrum loudspeaker's signature clarity and well-behaved directionality have Highpointe Church sounding brighter and better than ever.

Project Details

Location

Oklahoma City, Oklahoma

Product Category

House of Worship

Project Type

680-seat church with seven- to nine-piece band

Fulcrum Products

- (9) DX1565 Dual 15 inch Coaxial Loudspeakers, 60° x 45°
- (4) FA28ac Self-Powered Dual 8 inch Coaxial Loudspeakers, 90° x 60°
- (4) TS215 Dual 15 inch Direct-Radiating Subwoofers
- (4) TS221 Dual 21 inch Direct-Radiating Subwoofers

Supporting Products

- Powersoft K20 2-Channel Power Amps
- (2) Symetrix DSP Units
- Yamaha CK5 Digital Mixer

