APPLICATION EXAMPLE

HOUSE OF WORSHIP

SUPPORT DATA

APPLICATION

House of Worship

OBJECTIVE

To install an aesthetically pleasing audio system with a small footprint, and offer control of acoustic echo as much as possible without expensive external processing.

CUSTOMER REQUIREMENT

- Equipment to be controlled exclusively from rear of church by operator
- Vocal intelligibility to be the main focus
- Even distribution of audio for best listening experience
- System must be able to accept up to four microphones working simultaneously
- Ability to plug in a single laptop for audio replay

PRODUCT SOLUTION

6FP100T

8x 6.5" 2-Way loudspeakers

8SM300T

2x Dual 8" subwoofer

4SDL160

2x 4-Channel amplifier

PAA71

1x Mic/Line mixer

CONCEPT

With vocal intelligibility and the reduction of echo at the forefront of this installation, eight 6FP100T's loudspeakers were installed evenly throughout the pews allowing not only fluid audio distribution but the ability to run the system at a lower volume with the target area being covered sufficiently thus reducing ambient echo. Two 8SM-300T subwoofers were installed to provide lower frequency extension when the church choir were performing for male bass singers. These cabinets were fixed to the wall as to not block any walkways nor disturb the buildings aesthetics.

At the rear of the church saw the control equipment which consisted of a simple to operate PAA71 line/microphone level mixer. This was specified as it not only catered for but offered expansion capabilities should the church decide to increase the number of media or microphone inputs. A single PAA71 offers a dedicated auxiliary input which can be fed by either a rear mounted RCA connection, front mounted TRS socket, or wireless audio streaming thanks to built-in Linkoustic technology. In addition, the PAA71 offers a further five switchable line or microphone level inputs and a dedicated priority microphone input for emergency broadcasting if required. Finally, the church utilised the REC output for recording services locally to a PC.

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