

Architectural Specification
Sonance Professional Series - PS-C41RT
70V/100V/8 Ohm Selectable 4" In-Ceiling Speaker

The loudspeaker shall be of the two-way type comprising a single flush mount enclosure containing one 4" (100mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted .75" (19mm) cloth dome, ferrofluid cooled high frequency transducer. It shall utilize a one-piece bezel-less grille design and an optional square grille adapter shall also be available if required. Frequency range shall be 95Hz – 20KHz (-3dB). Total power handling shall be 30 Watts continuous pink noise and 60 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 95Hz – 20KHz shall be 87dB. The unit shall be supplied with a laminated core line matching transformer suitable for 100 volt or 70 volt with a front mounted control allowing user selectable power taps of 25W, 12.5W, 6.25W and 3.125W (70V) and an 8 Ohm bypass. The back shall be constructed from ABS. The baffle shall be ported, and injection molded using fire rated ABS that meets UL94V-0. The speaker shall be suitable for use in air handling spaces per UL2043, NFPA90 and NFPA70 S7232 as well as UL1480, UL Rated signaling speaker. It shall also conform to EN54-24. Wire shall be terminated in an enclosed area on the rear of the back can with a knock-out. Strain relief shall be provided for wire. A seismic attachment shall be provided on the rear of the back can, to allow additional support when necessary. The system shall include a support backing plate to reinforce the ceiling material and tile support rails which can all be installed from beneath the ceiling tile. External dimensions shall be 6.30" Diameter x 6.5" Depth (160mm x 165mm). The total enclosure shall weigh 5 lbs. (2.27 kg) per unit. It shall have a relatively flat frequency response and accurate sonic performance to deliver both good intelligibility and musicality. The loudspeaker shall be the Sonance Professional Series PS-C41RT. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.