

Key Features

- Full-range loudspeaker with a single 2.25" (57 mm) driver in a ported enclosure to deliver a 140° conical coverage pattern and clear, intelligible music and speech reproduction for flush-ceiling or pendantmount applications
- Integrated multi-tap transformer with innovative thumb wheel adjustment for easy-to-change tap setting from underneath the loudspeaker grille
- Shared voicing across entire FreeSpace DS product family enables • DS 16, DS 40 and DS 100 loudspeakers to be integrated on the same system and maintain consistent tonal quality
- Can be combined with either surface- or flush-mount FreeSpace 3 Acoustimass® module for extended bass response
- Supported by a suite of accessories, including ceiling-mount bracket, adjustable tile bridge, pendant-mount kit and square grille



Product Overview

The Bose® FreeSpace DS 16F is the entry-level member of the DS loudspeaker family. It is a high-performance, full-range, flush-mount loudspeaker designed for background music and speech reproduction in a wide range of installed applications. The DS 16F features a wide, even 140° conical pattern and frequency range down to 80 Hz.

Technical Specifications

Nominal Dispersion140° conicalRecommended High-Pass Filter80 Hz high-pass filterLoudspeaker EQRecommendedLong Tem Power Handling ² 16 W (64 W peak)Sensitivity (SPL / 1 W @ 1 m ³)84 dB SPLMaximum SPL @ 1 m ⁴ 96 dB SPL (102 dB SPL peak)Nominal Impedance8 Ω (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W. 2 W. 4 W. 8 W. 16 W 100 V: 2 W. 4 W. 8 W. 16 W 100 V: 2 W. 4 W. 8 W. 16 WProsecom225° (57 mm) full-range driverProsecomPC/ABSGrillePovder-coated steel grilleEnclosurePC/ABSGrillePovder-coated steel grilleEnvironmentalIndoor use onlyConnectorsYrier etiminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safe(0.20 mm) Gelling hole diatenter: 34° (239 mm) diameter hole on junction boxDimensionsOperfu fange diameter: 34° (239 mm) Gelling hole diatenter: 34° (230 mm) Gelling hole diatenter: 34°	System Performance	
Nominal Dispersion440° conicalRecommended High-Pass Filter80 Hz high-pass filterLoudspeaker EQRecommendedLong Tem Power Handling ² 16 W (64 W peak)Sensitivity (SPL / 1 W @ 1 m ³)84 dB SPLMaximum SPL @ 1 m ⁴ 96 dB SPL (102 dB SPL peak)Nominal Impedance8 Ω (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W. 2 W. 4 W. 8 W. 16 W 100 V: 2 W. 4 W. 8 W. 16 W 100 V: 2 W. 4 W. 8 W. 16 WTorsformer Taps (70/100 V)226 (57 mm) full-range driverProject225 (57 mm) full-range driverPhysicalPC/ABSGrillePowder-coated steel grilleEnclosurePC/ABSGrille (Connectors)Yire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount Wire (38 mm) cianater hole on junction boxDimensionsCeiling Thickness (Maximum)Depth: 6.9° (176 mm) Ceiling hole diatenter: 9.4° (239 mm) Bepth: 6.9° (176 mm) Ceiling hole diatenter: 8.0° (203 mm)Net Weight4.1b (1.9 kg)Shipping Weight6.0b (2.7 kg)	Frequency Response (+/-3 dB) ¹	95 Hz - 17 kHz
Recommended High-Pass Filter80 Hz high-pass filterLoudspeaker EQRecommendedLong Tem Power Handling ² 16 W (64 W peak)Senstivity (SPL / 1 W @ 1 m) ³ 84 dB SPLMaximum SPL @ 1 m ⁴ 96 dB SPL (102 dB SPL peak)Moninal Imgedance80 (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WDriver Compliment25° (57 mm) full-range driverPriver Compliment25° (57 mm) full-range driverProjecialPowder-coated steel grilleEnclosurePC/ABSGrillePowder-coated steel grilleEnvironmentalIndoor use onlyConnectorsThree-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingCurler finage diameter: 53° (8.9 mm) diameter hole on junction boxDimensionsOuter finage diameter: 8.0° (203 mm) Ceiling Thickness (Maximum)Net Weight4 Al b (1.9 kg)Shipping Weight6.0 lb (2.7 kg)	Frequency Range (-10 dB) ¹	80 Hz - 19 kHz
Loudspeaker EQ Recommended Long Term Power Handling ² 16 W (64 W peak) Sensitivity (SPL / 1 W @ 1 m) ³ 84 dB SPL Maximum SPL @ 1 m ⁴ 96 dB SPL (102 dB SPL peak) Nominal Impedance 8 Ω (transformer bypassed) Transformer Taps (70/100 V) 70 V: 1W, 2W, 4W, 8W, 16 W Tool V: 2W, 4W, 8W, 16 W 100 V: 2W, 4W, 8W, 16 W Transducers E Driver Compliment 2.25' (57 mm) full-range driver Physical E Enclosure P O/ABS Grille Powder-coated steel grille Environmental Indoor use only Connectors Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting tk: Safety cable attachment: .35' (8.0 mm) Safety cable attachment: .35' (8.0 mm) Dimensions Outer flange diameter: 9.4'' (203 mm) Depth: 6.9'' (176 mm) Ceiling Thickness (Maximum) Net Weight 4.4 lb (1.9 kg) Shipping Weight 6.0 lb (2.7 kg)	Nominal Dispersion	140° conical
Cong Term Dever Handling2If 6 W (64 W peak)Sensitivity (SPL / 1 W @ 1 m)384 dB SPLMaximum SPL @ 1 m496 dB SPL (102 dB SPL peak)Nominal Impedance8 Ω (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)70 V: 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)225" (57 mm) full-range driverPhysicalEnclosurePC/ABSGrillePowler-coated steel grilleEnvironmentalIndoor use onlyConnectorsThree-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree-iterminal conting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount Deptin: 6.9" (176 mm) Ceiling hole diameter: 9.4" (239 mm) Deptin: 6.9" (176 mm) Ceiling hole diameter: 8.0" (2.0 mm)Ceiling Thickness (Maximum)1.5" (38 mm)Net Weight4.4 lb (1.9 kg)Shipping Weight6.0 lb (2.7 kg)	Recommended High-Pass Filter	80 Hz high-pass filter
Sensitivity (SPL / 1 W @ 1 m) ³ 84 dB SPLMaximum SPL @ 1 m ⁴ 96 dB SPL (102 dB SPL peak)Nominal Impedance8 Ω (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 WNominal Impedance225" (57 mm) full-range driverTransformer Taps (70/100 V)225" (57 mm) full-range driverPriver Compliment225" (57 mm) full-range driverPhysicalEnclosureProjecalPowder-coated steel grilleEnclosurePowder-coated steel grilleEnvironmentalIndoor use onlyConnectorsThree-interpried quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safety cable attachment: 35" (8.9 mm) diameter hole on junction boxDimensionsOuter fiange diameter: 9.4" (239 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 9.4" (239 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 9.4" (203 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 9.4" (203 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 8.0" (203 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 8.0" (203 mm)Ceiling Thickness (Maximum)1.5" (38 mm) diameter hole on junction boxNet Weight4.4 lb (1.9 kg)Shipping Weight6.0 lb (2.7 kg)	Loudspeaker EQ	Recommended
Maximum SPL @ 1 m ⁴ 96 dB SPL (102 dB SPL peak)Nominal Impedance8 Ω (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WTransformer Taps (70/100 V)2.5° (57 mm) full-range driverPhysicalEnclosureEnclosurePC/ABSGrillePowder-coated steel grilleEnvironmentalIndoor use onlyConnectorsThree-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safety cable attachment: .35" (8.9 mm) diameter hole on junction boxDimensionsOuter flange diameter: 9.4" (239 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 8.0" (203 mm)Ceiling Thickness (Maximum)1.5" (38 mm)Net Weight4.4 lo (1.9 kg)Shipping Weight6.0 lb (2.7 kg)	Long Term Power Handling ²	16 W (64 W peak)
Nominal Impedance8 Ω (transformer bypassed)Transformer Taps (70/100 V)70 V: 1 W, 2 W, 4 W, 8 W, 16 W 100 V: 2 W, 4 W, 8 W, 16 WTransducersTransducersPhysicalEnclosurePC/ABSGrillePowder-coated steel grilleEnvironmentalIndoor use onlyConnectorsThree-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kt. Safety cable attachment: .55" (8.9 mm) diameter hole on junction boxDimensionsOuter flange diameter: 9.4" (239 mm) Deptrit: 6.9" (176 mm) Ceiling hole diameter: 8.0" (203 mm)Ceiling Thickness (Maximum)1.5" (38 mm)Net Weight4.4 lb (1.9 kg)Shipping Weight6.0 lb (2.7 kg)	Sensitivity (SPL / 1 W @ 1 m) ³	84 dB SPL
Transformer Taps (70/100 V) 70 V: 1 W, 2 W, 4 W, 8 W, 16 W Transducers Driver Compliment 2.25" (57 mm) full-range driver Physical Enclosure PC/ABS Grille Powder-coated steel grille Environmental Indoor use only Connectors Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three-ter	Maximum SPL @ 1 m ⁴	96 dB SPL (102 dB SPL peak)
Intervention 100 V: 2 W, 4 W, 8 W, 16 W Transducers 2.25" (57 mm) full-range driver Physical Physical Enclosure PC/ABS Grille Powder-coated steel grille Environmental Indoor use only Connectors Three-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safety cable attachment: .35" (8.9 mm) diameter hole on junction box Dimensions Outer flange diameter: 9.4" (239 mm) Depth: 6.9" (176 mm) Ceiling Thickness (Maximum) 1.5" (38 mm) Net Weight 4.4 lb (1.9 kg) Shipping Weight 6.0 lb (2.7 kg)	Nominal Impedance	8 Ω (transformer bypassed)
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GrillePowder-coated steel grilleEnvironmentalIndoor use onlyConnectorsThree-terminal barrier strip with a pre-wired ceramic connector Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)Suspension / MountingThree integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safety cable attachment: .35" (8.9 mm) diameter hole on junction boxDimensionsOuter flange diameter: 9.4" (239 mm) Depth: 6.9" (176 mm) Ceiling Thickness (Maximum)1.5" (38 mm)Net Weight4.4 lb (1.9 kg)Shipping Weight6.0 lb (2.7 kg)	Physical	
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Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) Suspension / Mounting Three integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safety cable attachment: .35" (8.9 mm) diameter hole on junction box Dimensions Outer flange diameter: 9.4" (239 mm) Depth: 6.9" (176 mm) Ceiling hole diameter: 8.0" (203 mm) Ceiling Thickness (Maximum) 1.5" (38 mm) Net Weight 4.4 lb (1.9 kg) Shipping Weight 6.0 lb (2.7 kg)	Environmental	Indoor use only
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Depth: 6.9" (176 mm) Ceiling hole diameter: 8.0" (203 mm) Ceiling Thickness (Maximum) 1.5" (38 mm) Net Weight 4.4 lb (1.9 kg) Shipping Weight 6.0 lb (2.7 kg)	Suspension / Mounting	
Net Weight 4.4 lb (1.9 kg) Shipping Weight 6.0 lb (2.7 kg)	Dimensions	Depth: 6.9" (176 mm)
Shipping Weight 6.0 lb (2.7 kg)	Ceiling Thickness (Maximum)	1.5" (38 mm)
	Net Weight	4.4 lb (1.9 kg)
Product Code	Shipping Weight	6.0 lb (2.7 kg)
	Product Code	
Black 043053	Black	043053
White 043054	White	043054

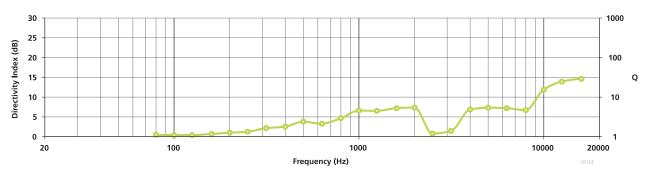
Footnotes:

Frequency response and range measured on-axis with recommended active EQ in an anechoic environment.
Power handling tested using pink noise filtered to meet IEC 268-5, 6 dB crest factor, 100 hours, with recommended EQ.

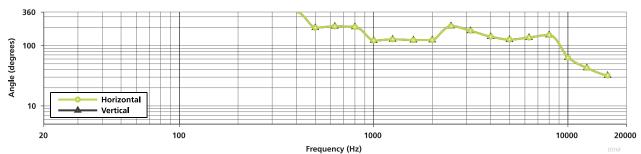
Sensitivity measured in free field (no boundary-loading gain) with recommended active EQ, referenced to 1W/1m
Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.



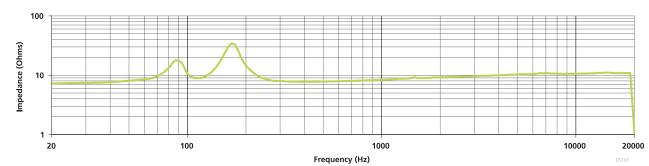
Directivity Index and Q



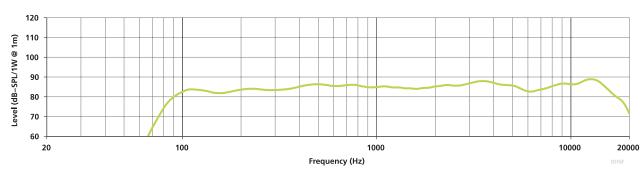
Beamwidth



Impedance



On-Axis Response









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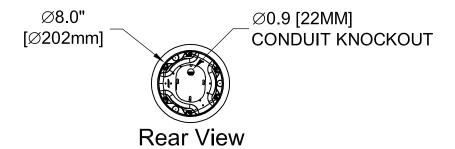
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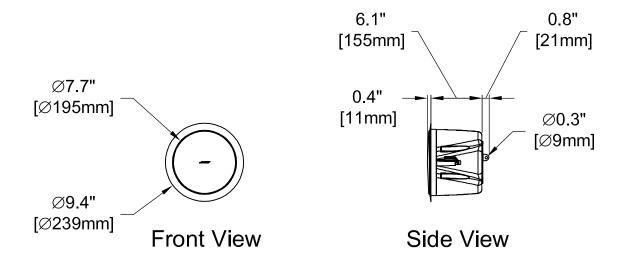
Tap Chart

	FreeSpace DS 16F Tap Chart											
Mount	m	2.4	3.0	3.6	4.2	4.8	5.5	6.1				
Height	ft	8	10	12	14	16	18	20				
т	1	87	84	82	79	78	76	75				
Å	2	90	87	85	82	81	79	78	dB _{SPL}			
P	4	93	90	88	85	84	82	81	abspl			
	8	96	94	91	88	87	85	84				
	16	99	97	94	91	90	88	87				

Note: 1 Watt tap is not available for 100V operation.

Mechanical Diagrams

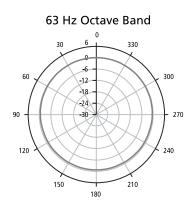


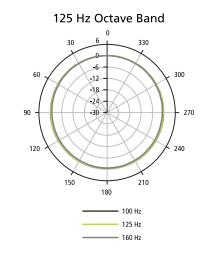






Horizontal Plots





1000 Hz Octave Band

0

330

210

800 Hz

- 1000 Hz

- 1250 Hz

300

240

270

6

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-6

-12

-18

-24)

-30

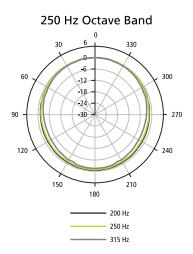
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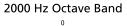
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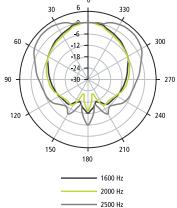
60

90

120



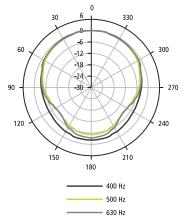




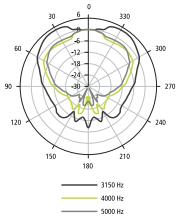
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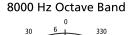
500 Hz Octave Band

----- 80 Hz

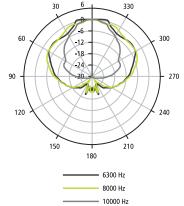


4000 Hz Octave Band

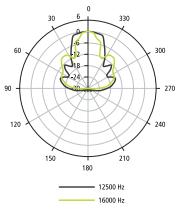




180



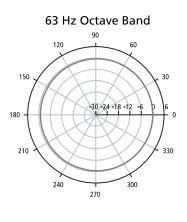
16000 Hz Octave Band

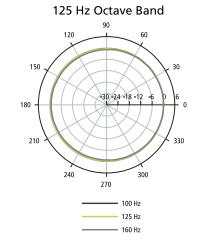




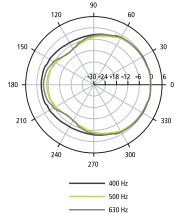


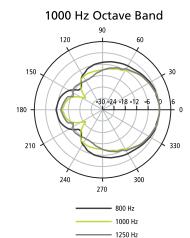
Vertical Plots

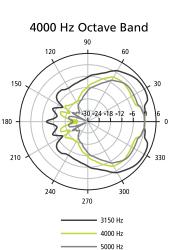


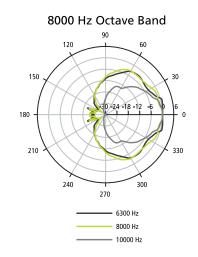


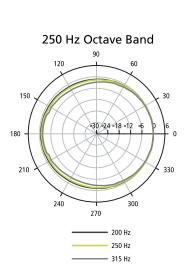
500 Hz Octave Band



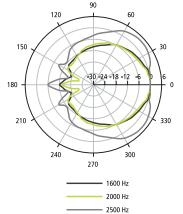




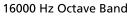


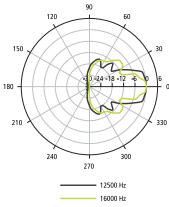


2000 Hz Octave Band













Architects' and Engineers' **Specifications**

The loudspeaker will be a 16 watt, ported loudspeaker system utilizing one 2.25" (57 mm) full-range driver. The loudspeaker shall be designed for installation in ceilings up to 20 ft (6.1 m) high. An optional pendant-mount accessory allows the loudspeaker to be hung from open ceilings.

The loudspeaker shall have a nominal rated impedance of 8 ohms and shall be wired in parallel with a line voltage matching (stepdown) transformer with a selector switch appropriate for various output taps. The loudspeaker input connections will allow for direct connection to 70 volt, 100 volt or low-impedance amplifiers.

Exposed cosmetic surfaces of the loudspeaker shall be paintable, and the acoustically transparent grille component shall be formed of powder-coated steel.

Each loudspeaker shall have a bandwidth of 95 Hz - 17 kHz and a maximum continuous acoustic output of 96 dB SPL, referenced to a full bandwidth pink noise input at 1 meter at the loudspeaker's rated power. The input connection shall consist of a three-terminal barrier strip with a pre-wired ceramic connector. The loudspeaker shall meet numerous standards for combination music and evacuation systems around the world.

Power settings available shall be: 1, 2, 4, 8, and 16 watts at 70 volts; 2, 4, 8, and 16 watts at 100 volts; and 16 watts at 8 ohms (when referenced to IEC noise for 100 hours). The nominal dispersion shall be 140° conical coverage pattern at -6 dB (average 1 - 4 kHz).

The loudspeaker shall be the Bose® FreeSpace® DS 16F loudspeaker.

Safety and Regulatory Compliance

The FreeSpace® DS 16F loudspeaker has passed extensive testing and complies with the following specifications and uses:

Listed to ANSI/UL 1480-2005

- Fire Protective Signaling Use UL Category UUMW, File Number S 3241. Control Number 42S9. Not for use with DC-supervised systems.
- General-Purpose Use UL Category UEAY, File Number S 5591 Control Number 3N89.
- · Suitable for use indoors in damp locations.
- Suitable for installation using Class 1, Class 2 or Class 3 wiring methods in accordance with NFPA 70, National Electric Code, 2002, Article 640.
- Suitable for use with fire alarm circuit wiring methods in accordance with NFPA 70, National Electric Code, 2002, Article 760.
- Suitable for use in air handling plenum spaces with a model PC-16 Plenum Cover installed.
- UL-2043. Fire Test and Visible Smoke Release for Discrete Products and their Accessories Installed in Air Handling Spaces.
- NFPA 70, National Electric Code, 2002, Article 300-22 (c).
- NFPA 90-A. 2002. Installation of Air Conditioning and Ventilation Systems, Paragraph 4.3.10.2.6.5.
- EMC Directive 89/336/EEC and Article 10 (1) of the directive, EN50081-1 and EN50082-1 as signified by the CE mark.

The DS 16F also has been designed to the requirements defined in the following European regulatory specifications for combination systems:

- British Standard Code of Practice BS 5839, Part 8 (with PC-16).
- Tested to IEC60268-5.

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