

MONITOR SERIES

COMPACT FULL-RANGE SPEAKER

55 / 55W

Careful acoustic design and the use of advanced materials contribute to the exceptional music fidelity and speech intelligibility exhibited by the RCF Monitor 55 (black) and Monitor 55W (white) two-way speaker systems. The shielded low-frequency driver's carbon fiber diaphragm produces a linear response and low distortion. The high-frequency section features a 110° x 110° constant directivity horn with a built-in mechanical phase equalizer. The horns driven by a Ferrofluid® cooled, 0.75" soft dome tweeter.



Applications

- Foreground/Background Music
- Distributed Speech Reinforcement
- AV Production/Playback
- Near-field Monitoring

Features

- 5" high-efficiency carbon fiber woofer 105° x 105° constant directivity horn with Ferrofluid® cooled, 0.75" soft dome tweeter
- Built-in, LICC low inductance passive crossover with high-frequency dynamic protection
- Lightweight, UV/weather resistant, trapezoidal shaped enclosure for multiple applications and minimum visual intrusion
- Integrated mounting points for use with optional mounting hardware
- Articulated surface mount hardware included.

SYSTEM

Freq. Range (-10 dB):	65Hz-20kHz
Freq. Response (-3 dB):	100Hz-19kHz
Horz. Coverage Angle (-6 dB):	105° averaged 800Hz to 16kHz
Vert. Coverage Angle (-6 dB):	105° averaged 800Hz to 16kHz
Directivity Factor; Q (DI):	6.3 (8) averaged 800Hz to 16kHz
System Sensitivity ¹ :	87 dB, 1W @ 1m
Rated Maximum SPL:	112 dB, @ 1m
System Nominal Impedance:	4 Ω (bypassed)
System Input Power Rating ² :	175W IEC, 700W Peak
Recommended Amplifier ³ :	250 W
Constant Voltage:	-
Power Taps:	-
Crossover:	2,5kHz, 12 dB / oct.

TRANSDUCERS

Low-Frequency:	5" (127mm) carbon fibre woofer
High-Frequency:	0.75" (19mm)

PHYSICAL

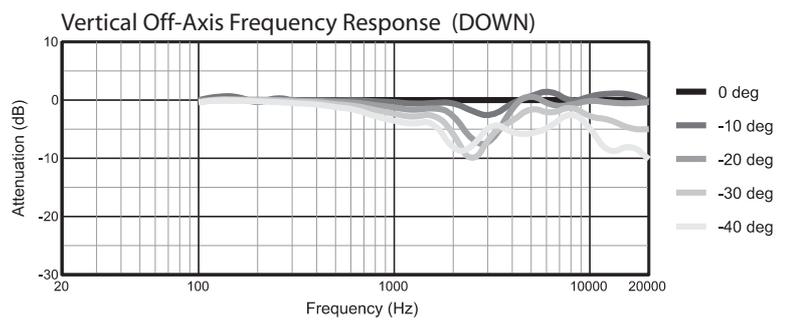
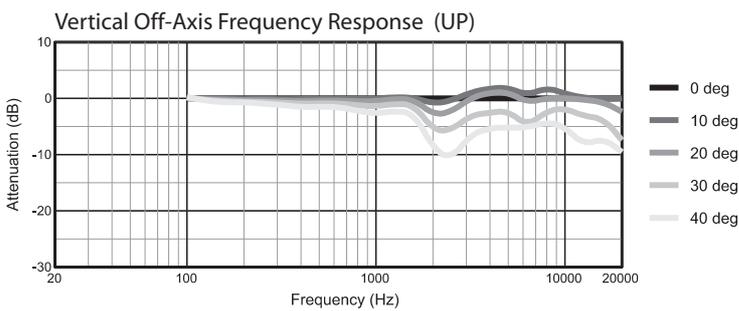
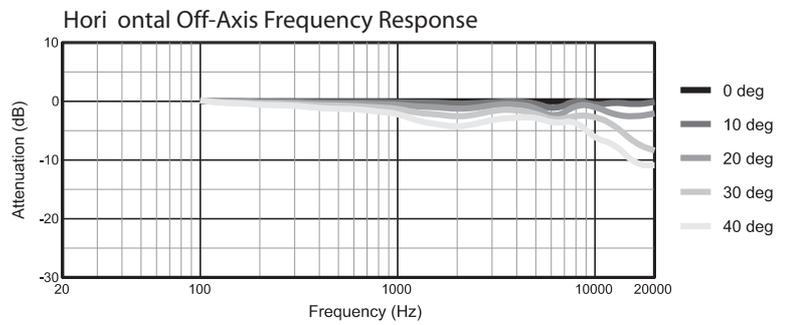
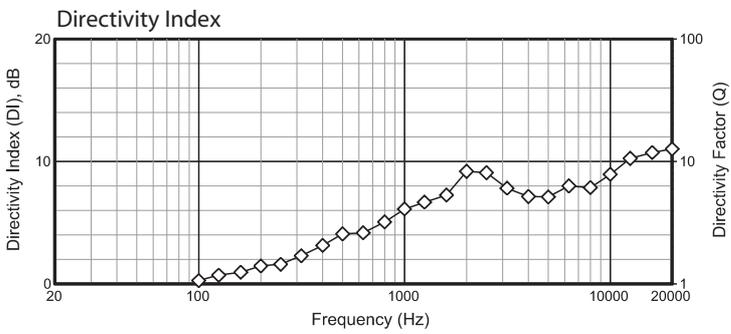
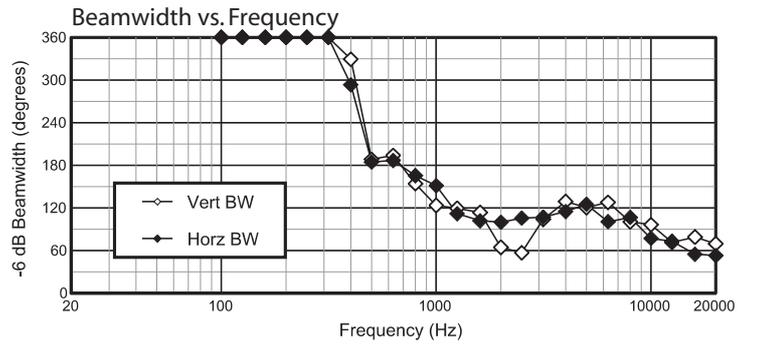
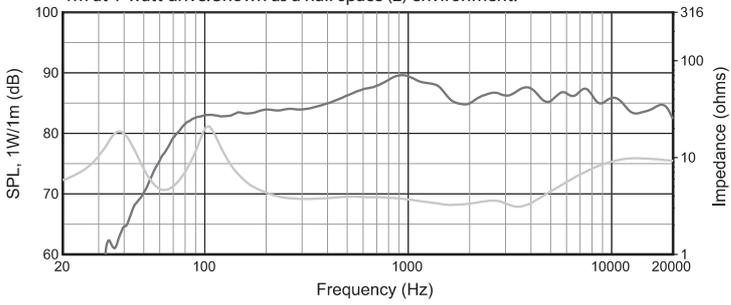
Enclosure:	45° back angles, high density polystyrene
Attachment Inserts:	2 points M6 threaded inserts on back 2 points M6 threaded inserts on top and bottom
Grille:	Matching perforated steel grille
Input Connectors:	Push connector plate
Dimensions (HxWxD):	10.31"x7.16"x6.57" (262x182x167 mm)
Net Weight:	8.6 lb. (3,9 kg)

¹ Measured on axis in the far field with 1 watt (2.00 V RMS, 4) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

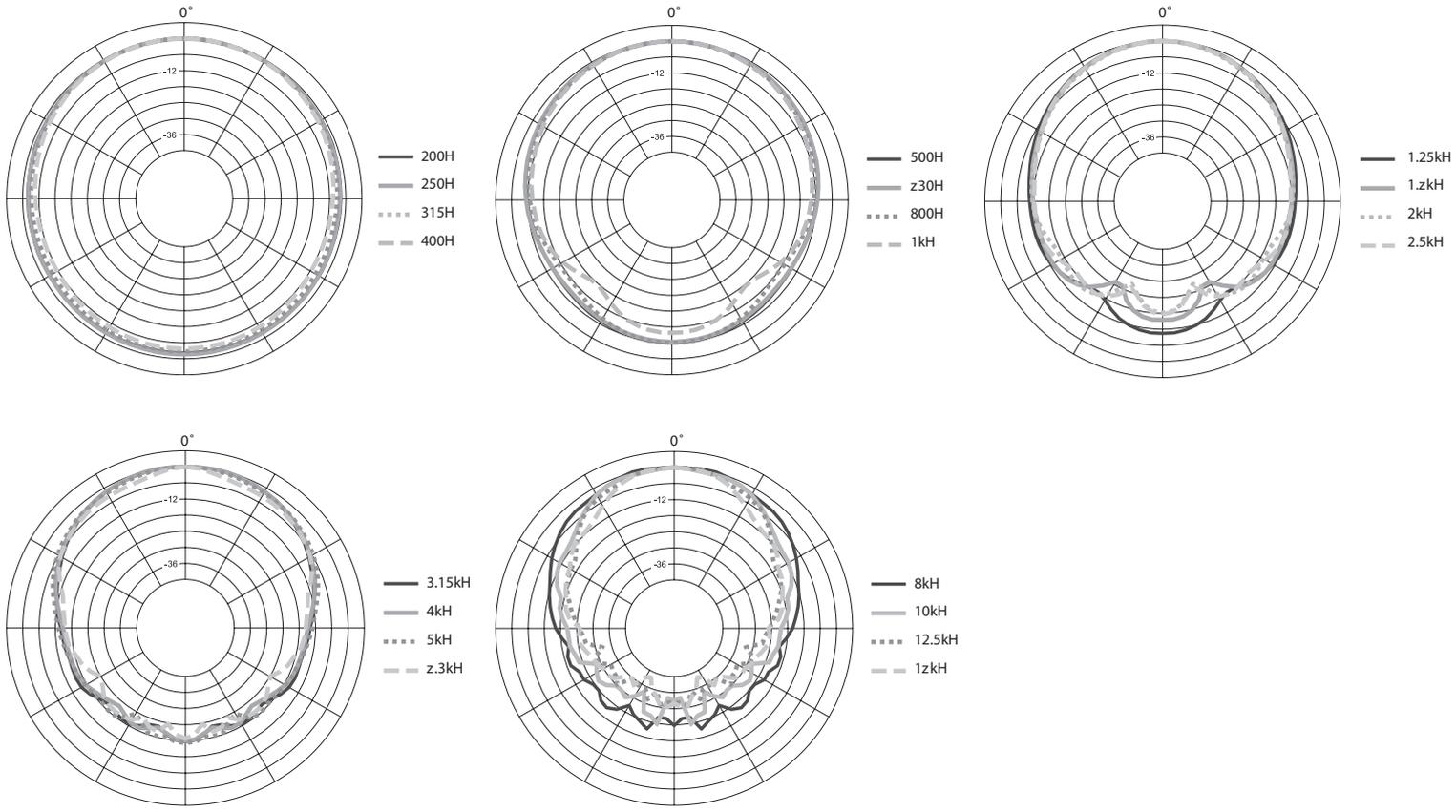
² IEC Spectrum, Peak for 2 hours with +4.5 dB crest factor.

³ Recommended Amplifier is a power capability value that should be taken as a guide.

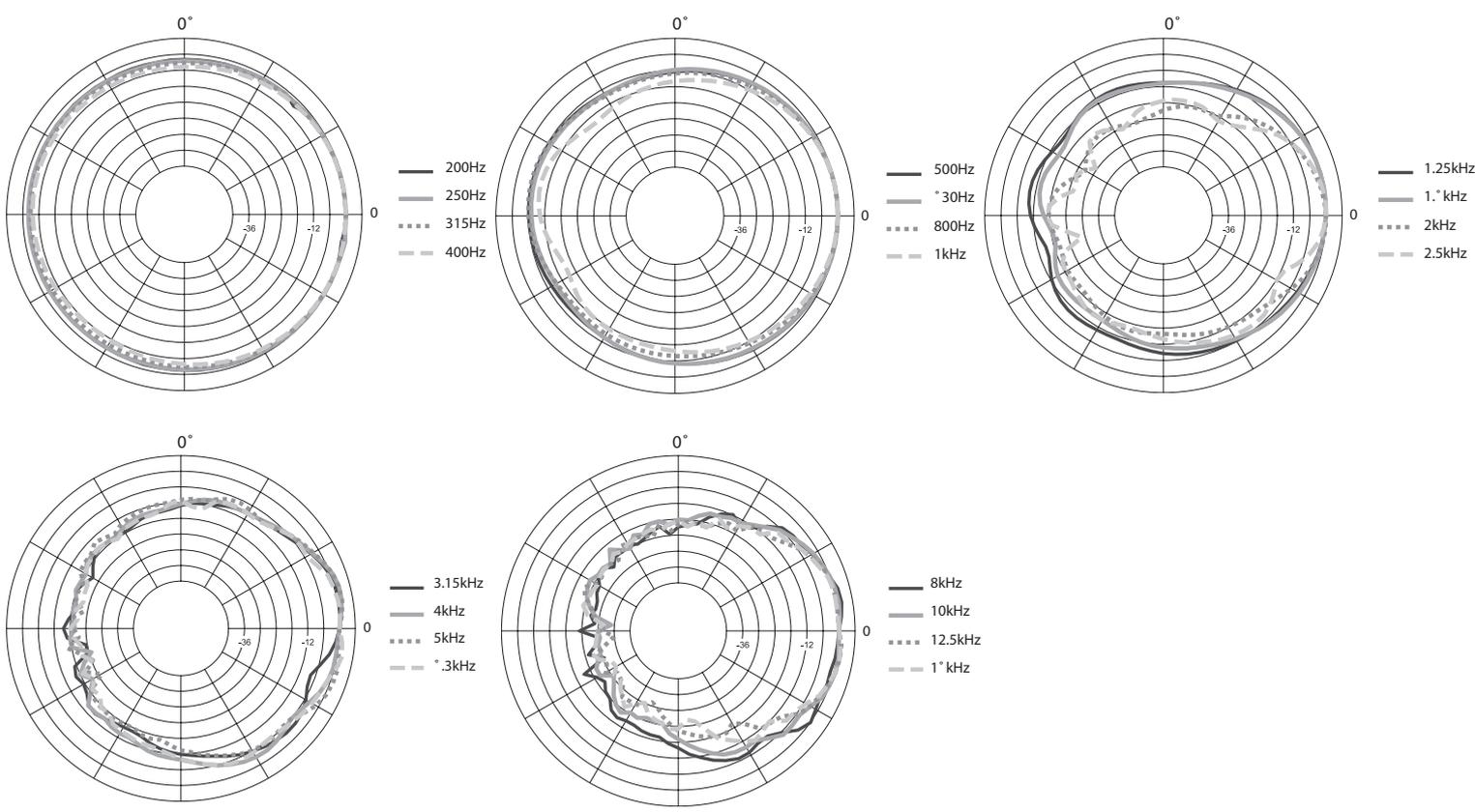
Frequency response is measured on-axis at a distance referenced back to 1m at 1-watt drive. Shown as a half space (2) environment.



Horizontal 1/3 Polar Plot



Vertical 1/3 Polar Plot



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS “A&E SPECIFICATIONS”) The following are “Part 2 Products” CSI-type specifications. It is assumed that “Part 1 General – Administrative and Procedures” and “Part 3 Execution – Installation and Maintenance” are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: Monitor 55T

2.02 Design

Configuration	Compact 2-Way Speaker
LF Sub-section	5 in. carbon fibre cone low-frequency driver
HF Sub-section	0.75 in.

2.03 Acoustical Proprieties

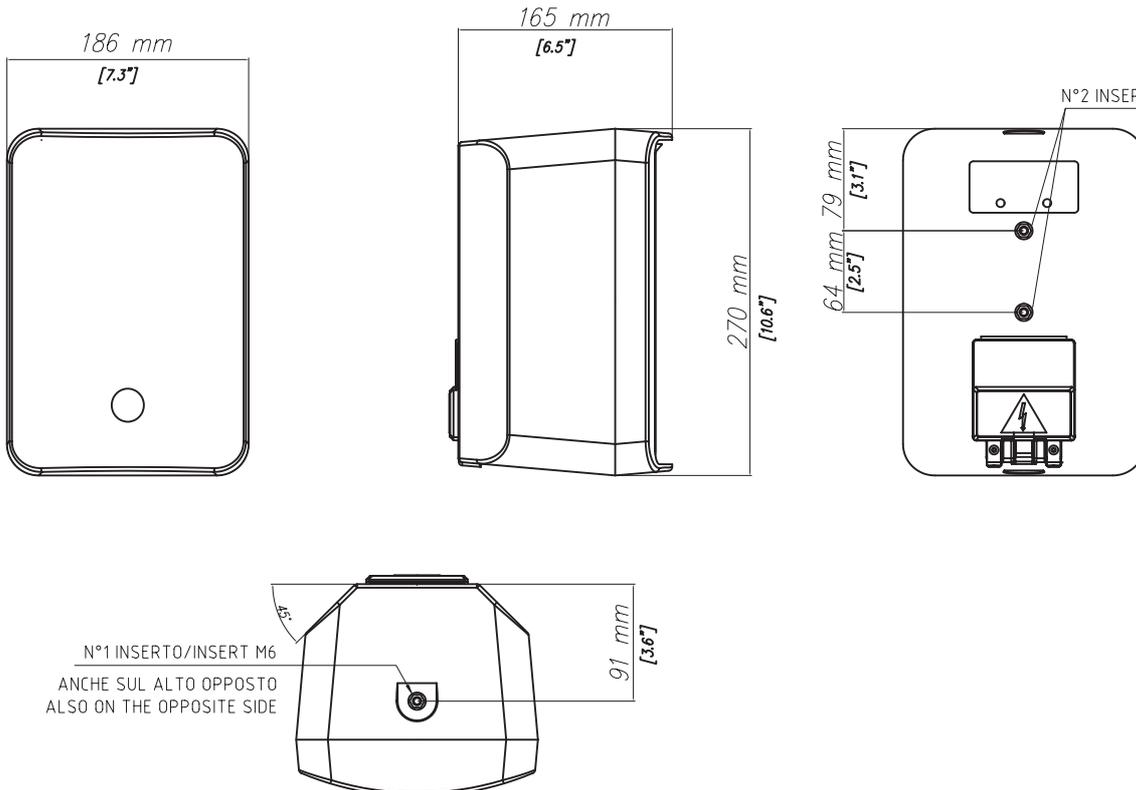
Nominal dispersion angle (–6 dB points):	Horizontal: 105° averaged 800 Hz to 16 kHz - Vertical: 105° averaged 800 Hz to 16 kHz
Axial Frequency Response (–3 dB points):	100 Hz – 19 kHz
Axial Frequency Range (–10 dB points):	65 Hz – 20 kHz
Axial Sensitivity (dB SPL/1 W @ 1 m):	87 dB
System Input Power Rating ² :	175W IEC; 700W Peak
Power Taps:	–
Constant Voltage Taps:	–
Nominal impedance:	4 Ω (bypassed)

2.04 Physical Properties

Enclosure Shape:	45° back angles
Enclosure Material:	High density polystyrene
Enclosure Finish:	Black (or white), scratch resistant paint
Connectors:	Spring-loaded terminals
Mounting/Suspension Hardware:	4 reinforced threaded metal sockets (3/8” and M6) for attaching optional mounting hardware
Grille:	Matching perforated steel grille
Dimensions (H x W x D):	10.31”x7.16”x6.57” (262x182x167 mm)
Weight:	8.6 lb. (3,9 kg)

2.05 Accessories

MA 5B - MA 5W	“U” brackets for wall mounting MR 55T (MA 5B black colour) and MR 5544WT (MA 5W white colour)
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RCF SpA Italy:
tel. +39 0522 274 411
fax +39 0522 232 428
www.rcfaudio.com
e-mail: info@rcf.it

RCF UK Sales Office:
tel. +44 7005 402181
e-mail: info@rcfaudio.co.uk

RCF France Sales Office:
tel. +33 6 07501800
e-mail: rcfrance@aol.com

RCF Germany Sales Office:
tel. +49 2203 925370
e-mail: germany@rcf.it

RCF USA Sales Office:
tel. +1 (603) 926-4604
e-mail: rcf-usa@adelphia.net