

Appendix C: TH-15A Specifications

Acoustic Performance

Frequency Range (-10 dB):	40 Hz – 20 kHz
Frequency Response (-3 dB):	50 Hz – 18.5 kHz
Horizontal Coverage Angle:	90°
Vertical Coverage Angle:	60°
Maximum SPL Long-Term:	113 dB SPL @ 1m
Maximum SPL Peak:	116 dB SPL @ 1m

Input/Output

Input Type:	Female XLR Balanced/Unbalanced
Input Impedance:	20 k Ω balanced bridging; 10 k Ω unbalanced
Loop-through:	Male XLR Balanced/Unbalanced (parallel with input)
Level Control:	Rotating knob 0 dB at center
Sensitivity:	+4 dBu for full output (Level Control @ Center) -36 dBu for full output (Level Control @ Max)

Transducers

Low Frequency:	15 in/381 mm with steel frame, paper cone woofer
High Frequency:	Horn-loaded 1 in/25 mm exit compression driver

Power Amplifiers

Low Frequency Power Amplifier	
Rated Power:	150 watts, 8 ohm load 182 watts peak
THD:	<0.1%
Signal-to-Noise Ratio:	> -94 dB, 20 Hz to 20 kHz, unweighted, referenced to 138 watts into 8 ohms
Design:	BTL Class D
High Frequency Power Amplifier	
Rated Power:	50 watts, 4 ohm load 60 watts peak
THD:	<0.1 %
Signal-to-Noise Ratio:	> -97 dB, 20 Hz to 20 kHz, unweighted, referenced to 50 watts into 4 ohms
Design:	Class AB

Electronic Crossover

Crossover Type:	24 dB/octave
Crossover Frequency:	3 kHz

Equalization

Low Frequency EQ:	\pm 15 dB @ 80 Hz, shelving
Mid Frequency EQ:	\pm 15 dB, bandpass, sweepable from 100 Hz to 8 kHz
High Frequency EQ:	\pm 15 dB @ 12 kHz, shelving
Direct/EQ Switch:	Bypasses EQ section

Protection Features

Over-excursion Protection:	Second-order sub-sonic filter
Thermal Protection:	Independent amplifier shutdown, auto reset
Driver Protection:	Independent HF and LF compressors

AC Power Requirements

US:	120 VAC, 60 Hz
Europe:	240 VAC, 50 Hz
Korea:	220 VAC, 60 Hz
Japan:	100 VAC, 50/60 Hz
AC Connector:	3-pin IEC 250 VAC, 20 A male
Fuse:	115 VAC: T 3.15 AL/250 V 230 VAC: T 2 AL/250 V
Power Consumption:	320 watts with music, loud mix 20 watts quiescent (idle)

Construction Features

Basic Design:	Asymmetrical Trapezoidal
Material:	Polypropylene
Finish:	Textured
Handles:	One on each side, one on top
Grille:	Perforated metal with weather-resistant coating
Display LEDs	
Front:	Power ON
Rear:	Power ON, OL (overload)

Physical Dimensions and Weight

Dimensions	
Height:	27.1 in/689 mm
Width:	16.8 in/427 mm
Depth:	11.7 in/296 mm
Weight:	36 lb/16.3 kg

Mounting Methods:

Pole-mountable via the built-in socket on the bottom of the cabinet. Be sure the pole is capable of supporting the weight of the TH-15A.

Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

TH-15A Dimensions

