# 15HTX100 8 Ω

- 99 dB (LF), 108.5 dB (MF/HF - DCX354) sensitivity
- 1600 W continuous program power capacity
- 60°x40° nominal coverage
- 52 - 20000 Hz response
- FEA optimized horn flare for improved acoustic loading and controlled coverage
- Double silicone spider with optimized compliance
- Aluminium demodulating ring for very low distortion

We know it's not correct to call the 15HTX100 a tri-axial, but it's one more than a co-axial. A new exponential cone combined with an iteratively optimized 600Hz horn provides the same wide crossover overlap for the low and mid bandpasses as our DCX354 driver offers in the mid and high bandpasses. Unheard of flexibility, point source impact, and controlled off-axis behavior. Ready to drop in to your most daring applications.







**B&C Speakers S.p.A.**Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

# 15HTX100 8 Ω

## GENERAL

| | |
|---|---|
| Nominal Diameter | **380 mm (15 in)** |
| Frequency Range | **52 Hz - 20000 Hz** |
| Dispersion Angle<br>Horizontal, included by –6 dB down points. | **60 °** |
| Woofer Cone Treatment | **TWP Waterproof Both Sides** |

## PARAMETERS

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

| | |
|---|---|
| Fs | **52 Hz** |
| Re | **5.5 Ω** |
| Qes | **0.305** |
| Qms | **5.9** |
| Qts | **0.29** |
| Vas | **78 dm³ (2.75 ft³)** |
| Sd | **855 cm² (132.5 in²)** |
| η0 | **3.5 %** |
| Xmax | **10 mm (0.4 in)** |
| Xvar | **8.5 mm** |
| Mms | **125 g** |
| Bl | **27 Tm** |
| Le | **0.9 mH** |
| EBP | **170 Hz** |

## SPECIFICATIONS LF UNIT

| | |
|---|---|
| Nominal Impedance | **8 Ω** |
| Minimum Impedance | **7 Ω** |
| Nominal Power Handling<br>2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air. | **800 W** |
| Continuous Power Handling<br>Power on Continuous Program is defined as 3 dB greater than the Nominal rating. | **1600 W** |
| Sensitivity<br>Applied RMS Voltage is set to 2.83V | **99 dB** |
| Frequency Range | **52 Hz - 1000 Hz** |
| Voice Coil Diameter | **100 mm (4 in)** |
| Winding Material | **Aluminium** |
| Former Material | **Glass Fibre** |
| Winding Depth | **25.1 mm (1 in)** |
| Magnetic Gap Depth | **10.2 mm (0.4 in)** |
| Flux Density | **1.5 T** |

## SPECIFICATIONS MF UNIT

| | |
|---|---|
| Nominal Impedance | **8 Ω** |
| Minimum Impedance | **7.5 Ω** |
| Nominal Power Handling<br>2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance. | **90 W** |
| Continuous Power Handling<br>Power on Continuous Program is defined as 3 dB greater than the Nominal rating. | **180 W** |
| Sensitivity<br>Applied RMS Voltage is set to 2.83V | **108.5 dB** |
| Frequency Range | **0.5 kHz - 5.5 kHz** |
| Recommended Crossover<br>12 dB/oct. or higher slope high-pass filter. | **0.7 kHz** |
| Voice Coil Diameter | **76 mm (3 in)** |
| Winding Material | **Aluminium** |
| Inductance | **0.26 mH** |
| Flux Density | **1.9 T** |
| Diaphragm Material | **HT Polymer Ring** |

## SPECIFICATIONS HF UNIT

| | |
|---|---|
| Nominal Impedance | **8 Ω** |
| Minimum Impedance | **6.5 Ω** |
| Nominal Power Handling<br>2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance. | **50 W** |
| Continuous Power Handling<br>Power on Continuous Program is defined as 3 dB greater than the Nominal rating. | **100 W** |
| Sensitivity<br>Applied RMS Voltage is set to 2.83V | **108.5 dB** |
| Frequency Range | **5 kHz - 20 kHz** |
| Recommended Crossover<br>12 dB/oct. or higher slope high-pass filter. | **4.5 kHz** |
| Voice Coil Diameter | **51 mm (2 in)** |
| Winding Material | **Aluminium** |
| Inductance | **0.1 mH** |
| Flux Density | **1.95 T** |
| Diaphragm Material | **HT Polymer Ring** |



**B&C Speakers S.p.A.** Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

# 15HTX100 8 Ω

## DESIGN

| | |
|---|---|
| Surround Shape | **Triple Roll** |
| Cone Shape | **Curvilinear** |
| Magnet Material | **Neodymium Ring** |
| Spider | **Double Silicone** |
| Pole Design | **T-Pole** |
| Woofer Cone Treatment | **TWP Waterproof Both Sides** |
| Recommended Loading | **Vented Box** |
| Cone Material | **Treated Paper** |

## MOUNTING AND SHIPPING INFO

| | |
|---|---|
| Overall Diameter | **393 mm (15.5 in)** |
| Bolt Circle Diameter | **372 mm (14.65 in)** |
| Baffle Cutout Diameter | **355 mm (14 in)** |
| Depth | **261 mm (10.28 in)** |
| Flange and Gasket Thickness | **15 mm (0.6 in)** |
| Net Weight | **10.8 kg (23.8 lb)** |

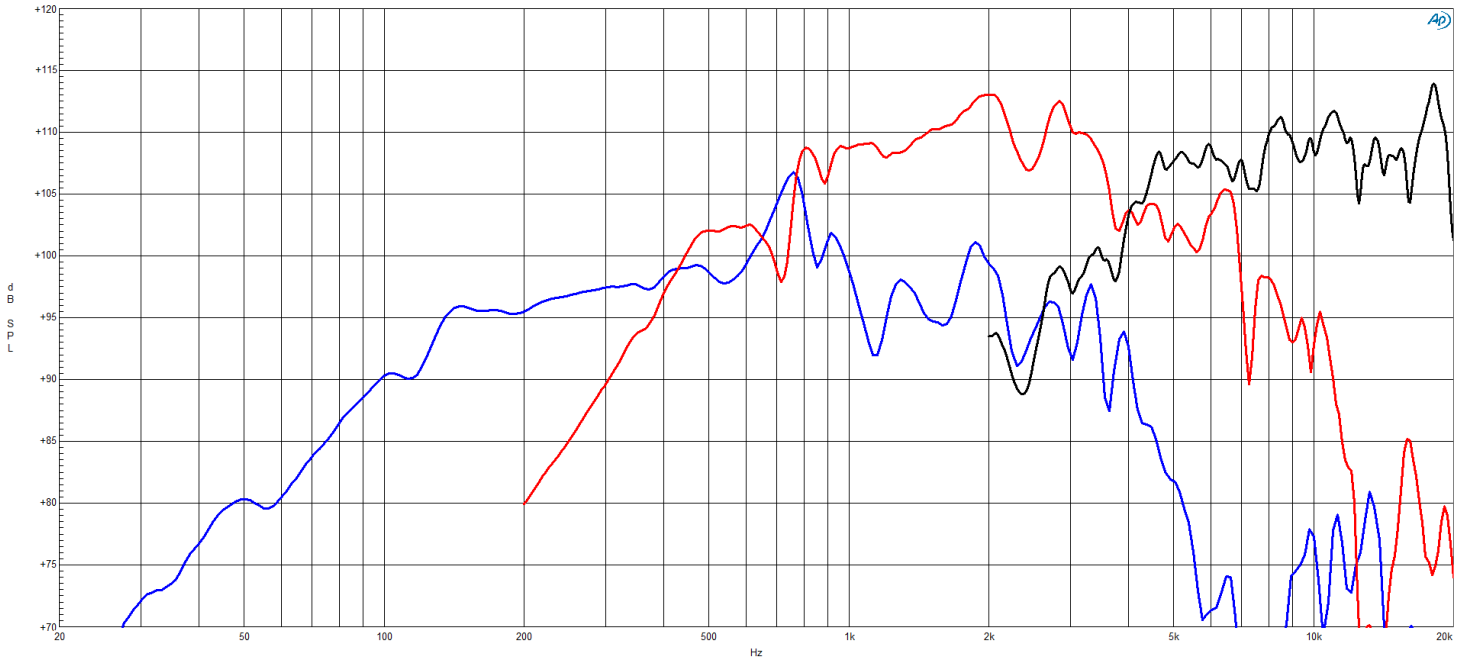
## SERVICE KITS

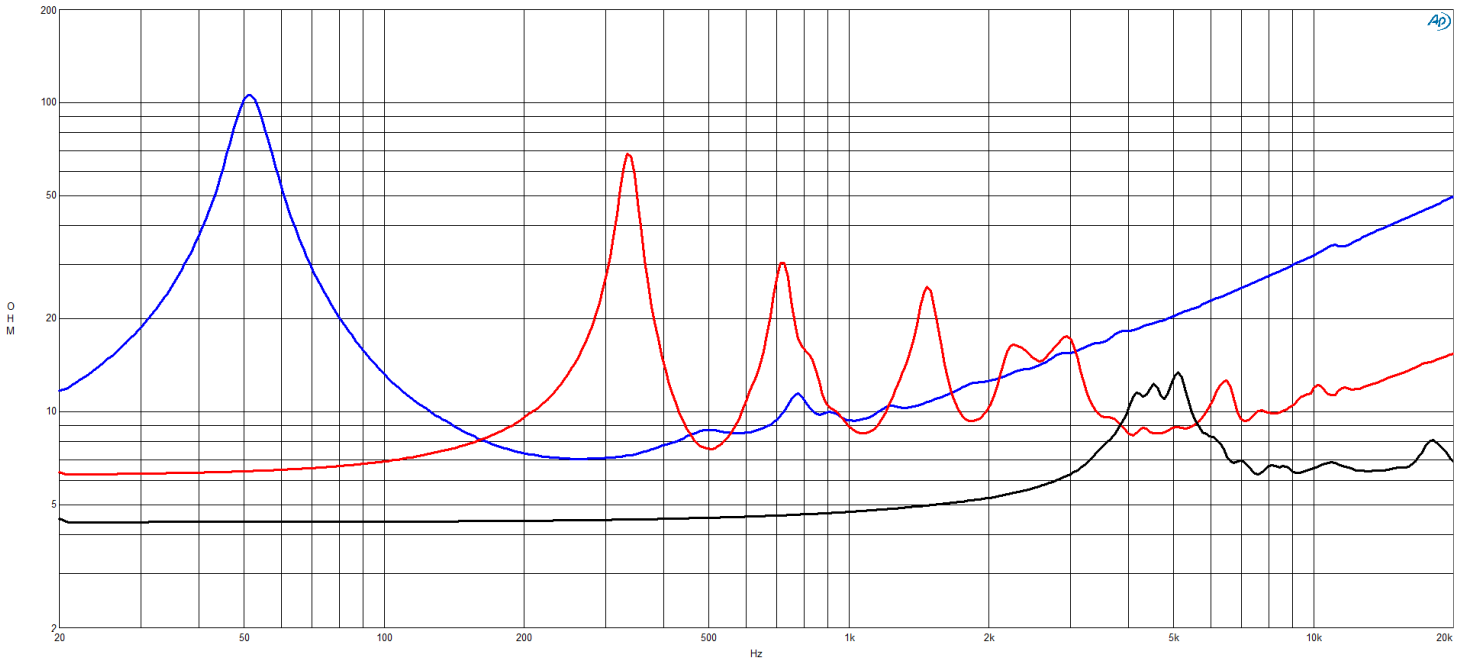
| | |
|---|---|
| HF replacement-diaphragm | **MMDDCX354HF8** |
| MF replacement-diaphragm | **MMDDCX354MF8** |



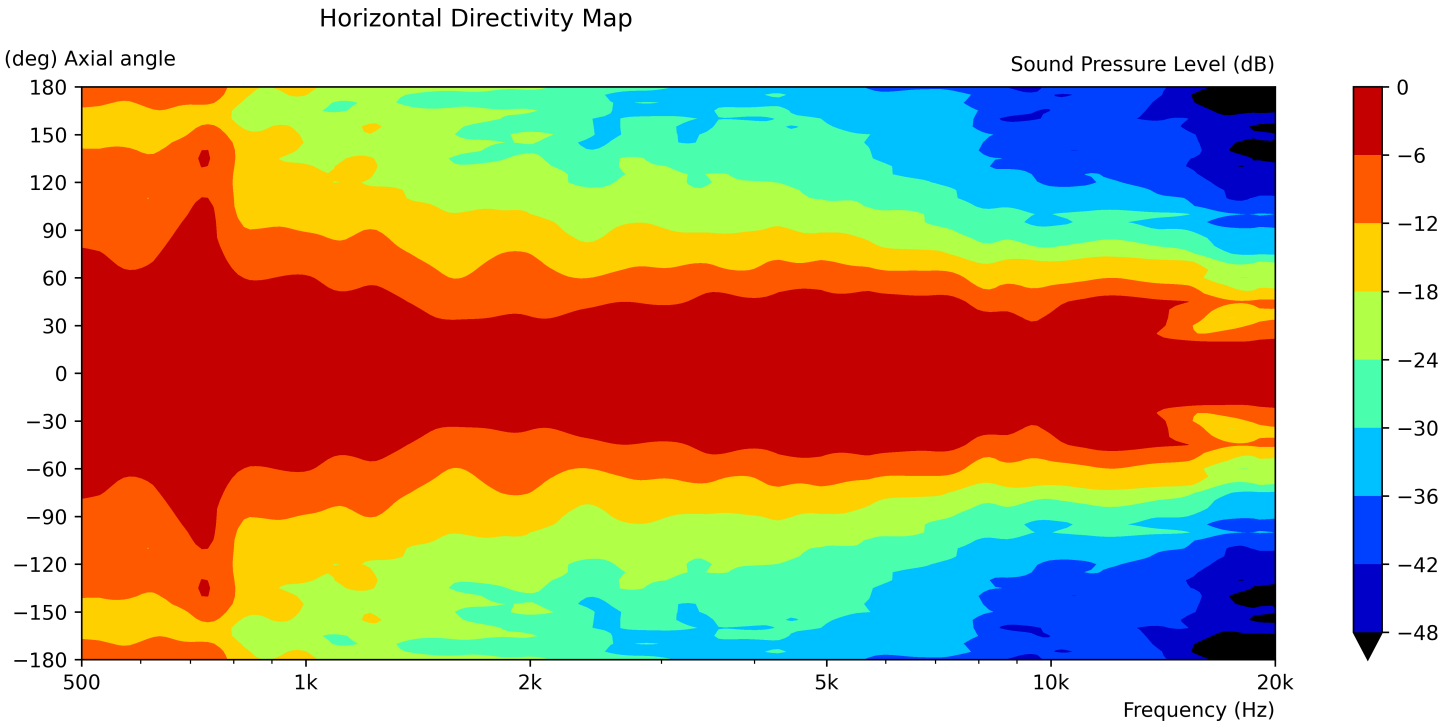
**B&C Speakers S.p.A.** Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

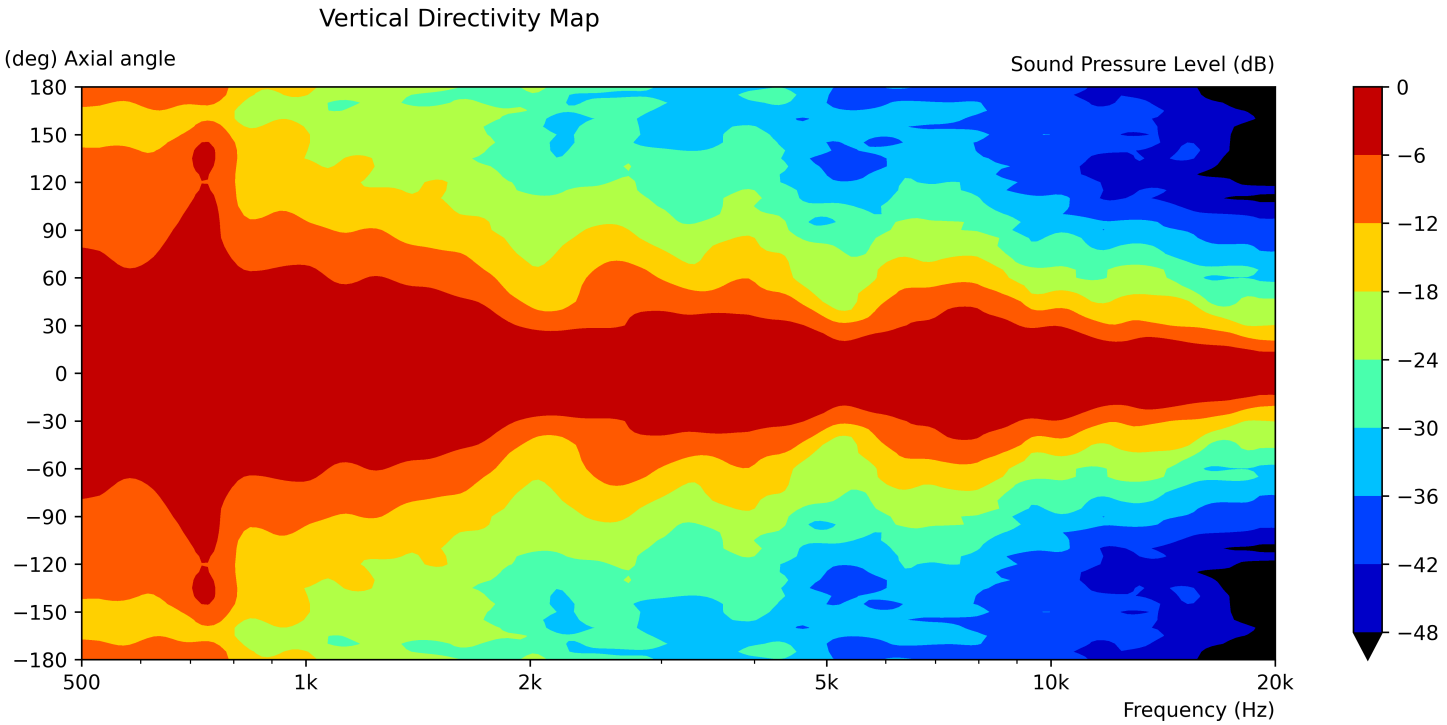
# 15HTX100 8 Ω


+120
+115
+110
+105
+100
+95
+90
+85
+80
+75
+70
dB SPL
20
50
100
200
500
1k
2k
5k
10k
20k
Hz

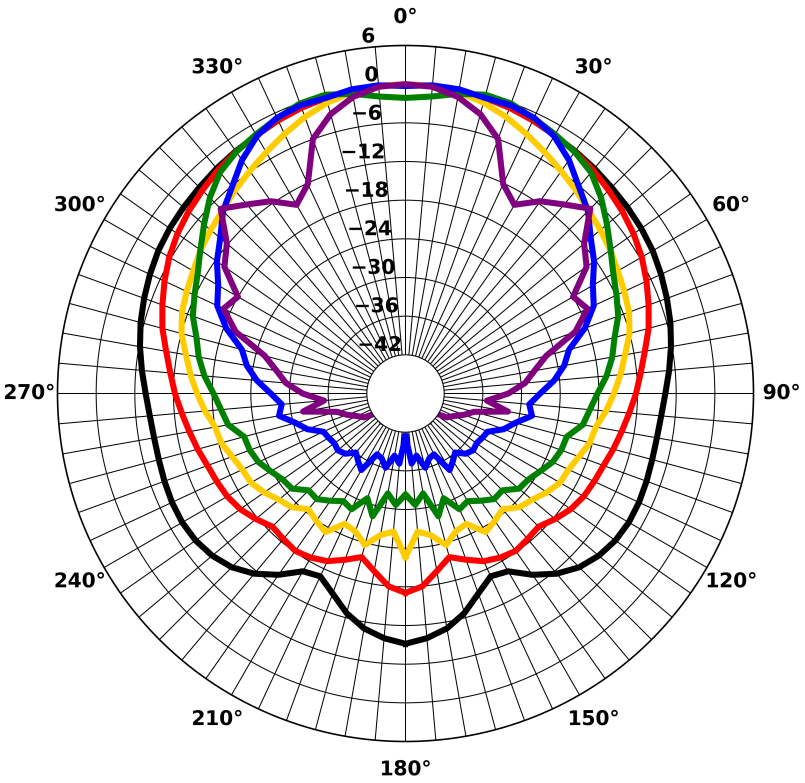

200
100
50
20
10
5
2
OHM
20
50
100
200
500
1k
2k
5k
10k
20k
Hz

# 15HTX100 8 Ω


Horizontal Directivity Map
(deg) Axial angle
Sound Pressure Level (dB)
180
150
120
90
60
30
0
−30
−60
−90
−120
−150
−180
500
1k
2k
5k
10k
20k
Frequency (Hz)
0
−6
−12
−18
−24
−30
−36
−42
−48

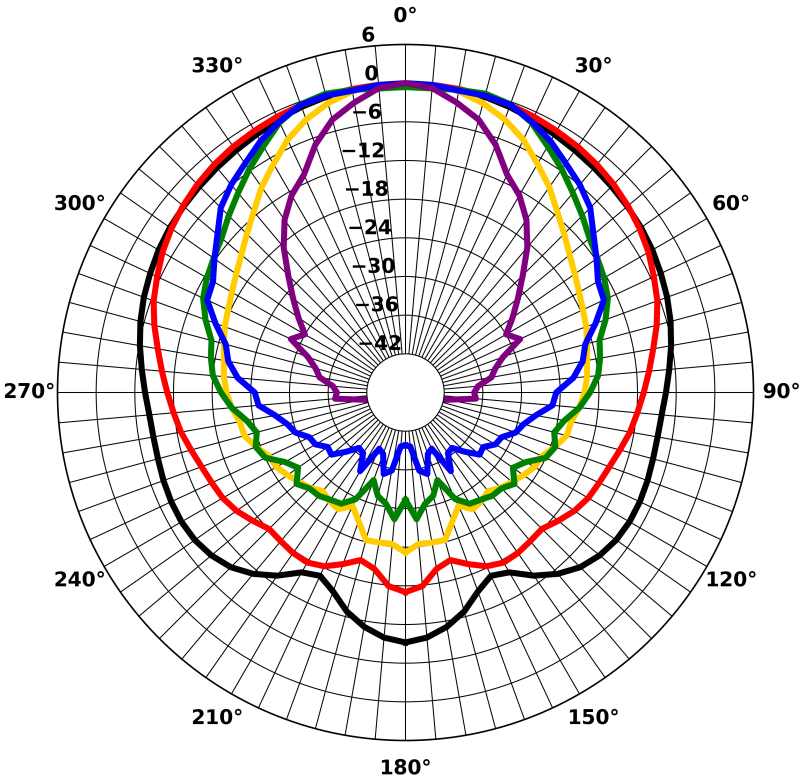

Vertical Directivity Map
(deg) Axial angle
Sound Pressure Level (dB)
180
150
120
90
60
30
0
−30
−60
−90
−120
−150
−180
500
1k
2k
5k
10k
20k
Frequency (Hz)
0
−6
−12
−18
−24
−30
−36
−42
−48

# 15HTX100 8 Ω




**HORIZONTAL**

500 Hz
1 kHz
2 kHz
4 kHz
8 kHz
16 kHz




**VERTICAL**

500 Hz
1 kHz
2 kHz
4 kHz
8 kHz
16 kHz


**B&C Speakers S.p.A.** Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com