

SUB WOOFER

Hi Energy

HX 250 900 Watt

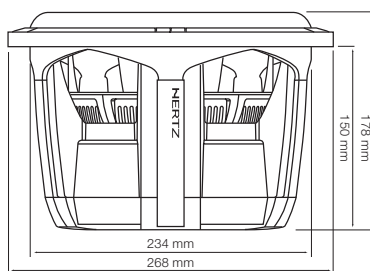


Technical Specifications

Component	Single Coil Subwoofer	
Size	mm	250 (10")
Power Handling	W peak	900
	W continuous	450
Impedance	Ω	4
Frequency response	Hz	34 ÷ 800
Sensitivity	dB/SPL	89
Outer Ø	mm	268
Mounting Ø	mm	234
Total depth	mm	178
Mount. depth	mm	150
Magnet size	mm	190
Total driver displacement	l	2
Weight of one component	kg	9,5
Voice coil Ø	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

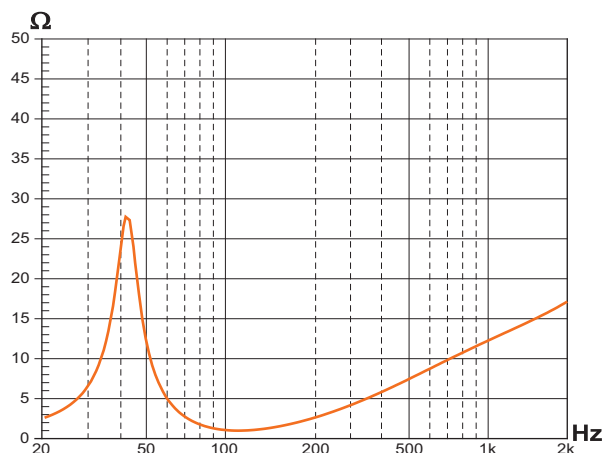
Xmech* maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

- 1 Low incidence five spoke, anti-resonant aluminium alloy basket.
- 2 Front-Back gasket.
- 3 V-cone® with Polypropylene membrane stiffened with mineral powders.
- 4 High excursion surround.
- 5 Black nomex spider.
- 6 Extended pole.
- 7 Aluminium former and high temperature pure copper voice coil.
- 8 Oversized motor with forced ventilation system.
- 9 Butyl rubber protective ring for acoustic damping.
- 10 Easy to access, oversized terminals for high-grade cable termination.



Electro-Acoustic Parameters

D	mm	210
Xmax	mm	14
Re	Ω	2,9
Fs	Hz	37
Le	mH@1kHz	1,79
Le	mH@10kHz	0,57
Vas	l	24,04
Mms	g	129,3
Cms	mm/N	0,14
BL	T-m	13,16
Qts		0,44
Qes		0,49
Qms		4,70
Spl (1m/2,83V)	dB	89



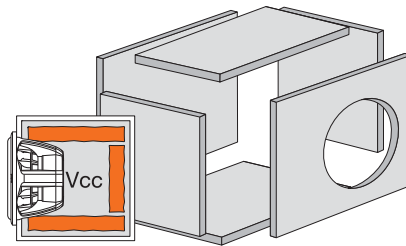
design

HX 250

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.



Sealed Box

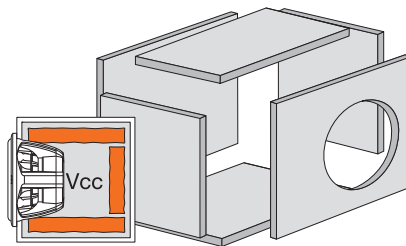
Vcc = 11,03 l
Fc = 50 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.

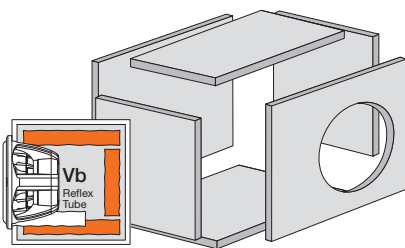


Sealed Box

Vcc = 16,13 l
Fc = 55 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

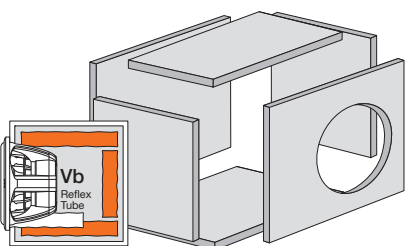
Reflex Box

Vb = 15,15 l
Fb = 40 Hz

Reflex Tube
Ø = AR 70
L = 240 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

Reflex Box

Vb = 20,64 l
Fb = 38 Hz

Reflex Tube
Ø = AR 70
L = 250 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.

SUB WOOFER

HI energy

HX 250D 900 Watt

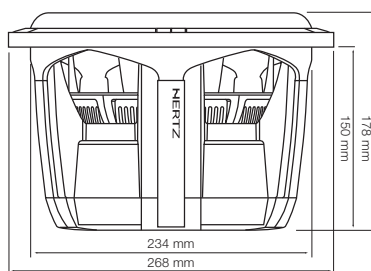


Technical Specifications

Component	Dual coil Subwoofer	
Size	mm	250 (10")
Power Handling	W peak	900
	W continuous	450
Impedance	Ω	4 + 4
Frequency response	Hz	34 ÷ 800
Sensitivity	dB/SPL	88
Outer \varnothing	mm	268
Mounting \varnothing	mm	234
Total depth	mm	178
Mount. depth	mm	150
Magnet size	mm	190
Total driver displacement	l	2
Weight of one component	kg	9,5
Voice coil \varnothing	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

Xmech* maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

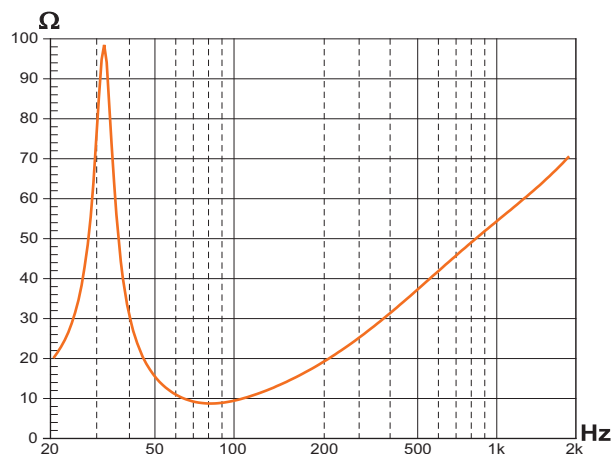
- 1 Low incidence five spoke, anti-resonant aluminium alloy basket.
- 2 Front-Back gasket
- 3 V-cone® with Polypropylene membrane stiffened with mineral powders.
- 4 High excursion surround.
- 5 Black nomex spider.
- 6 Extended pole.
- 7 Aluminium former and high temperature pure copper voice coil.
- 8 Oversized motor with forced ventilation system.
- 9 Butyl rubber protective ring for acoustic damping.
- 10 Easy to access, oversized terminals for high-grade cable termination.
- 11 Double voice coil to improve versatility and power.



Electro-Acoustic Parameters *

D	mm	210
Xmax	mm	14
Re	Ω	5,8
Fs	Hz	34
Le	mH@1kHz	7,27
Le	mH@10kHz	2,42
Vas	l	20,54
Mms	g	176,9
Cms	mm/N	0,12
BL	T-m	23,34
Qts		0,37
Qes		0,39
Qms		6,80
Spl (1m/2,83V)	dB	88

*Coils in Series



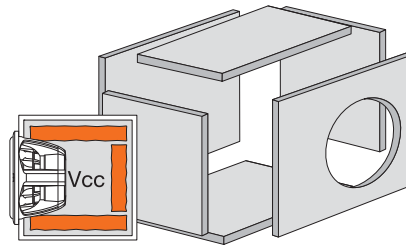
design

HX 250D

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.



Sealed Box

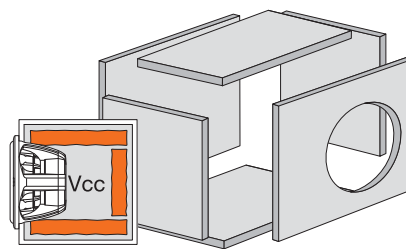
Vcc = 11,03 l
Fc = 50 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.

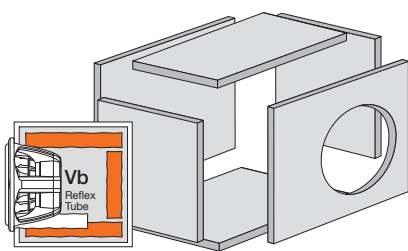


Sealed Box

Vcc = 16,13 l
Fc = 55 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

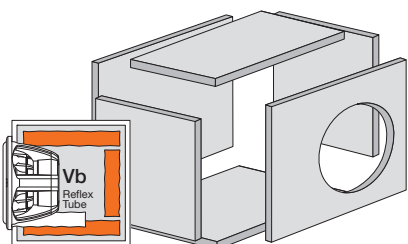
Reflex Box

Vb = 15,15 l
Fb = 40 Hz

Reflex Tube
Ø = AR 70
L = 240 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

Reflex Box

Vb = 20,64 l
Fb = 38 Hz

Reflex Tube
Ø = AR 70
L = 250 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.

SUB WOOFER

HI energy

HX 300 1200 Watt

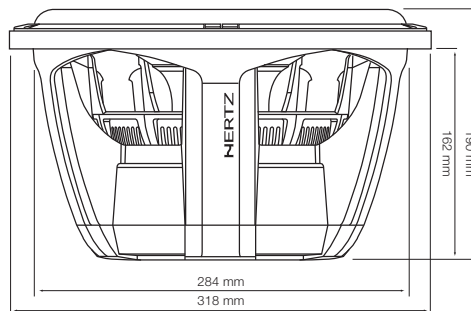


Technical Specifications

Component	Single coil Subwoofer	
Size	mm	320 (12")
Power Handling	W peak	1200
	W continuous	600
Impedance	Ω	4
Frequency response	Hz	28 ÷ 700
Sensitivity	dB/SPL	90
Outer Ø	mm	318
Mounting Ø	mm	284
Total depth	mm	190
Mount. depth	mm	162
Magnet size	mm	190
Total driver displacement	lit	2,9
Weight of one component	kg	9,7
Voice coil Ø	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

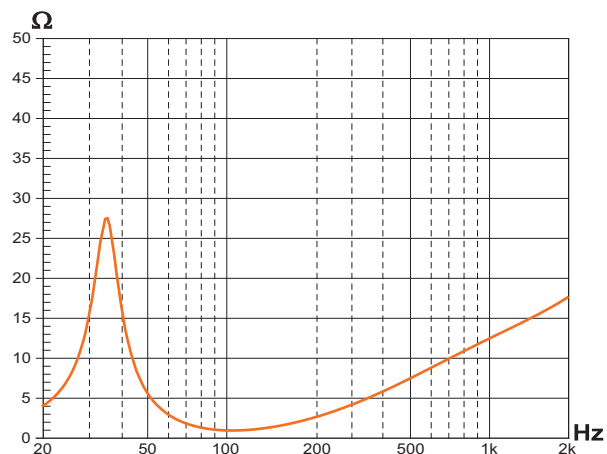
Xmech* maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

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- 2 Front-Back gasket.
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- 4 High excursion surround.
- 5 Black nomex spider.
- 6 Extended pole.
- 7 Aluminium former and high temperature pure copper voice coil.
- 8 Oversized motor with forced ventilation system.
- 9 Butyl rubber protective ring for acoustic damping.
- 10 Easy to access, oversized terminals for high-grade cable termination.



Electro-Acoustic Parameters

D	mm	253
Xmax	mm	14
Re	Ω	2,9
Fs	Hz	33
Le	mH@1kHz	1,83
Le	mH@10kHz	0,56
Vas	l	49,62
Mms	g	167,1
Cms	mm/N	0,13
BL	T-m	13,57
Qts		0,47
Qes		0,53
Qms		4,40
Spl (1m/2,83V)	dB	90



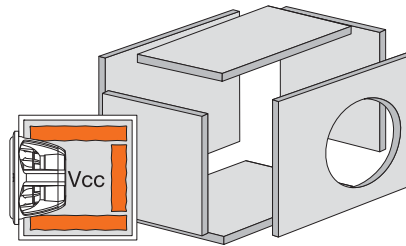
design

HX 300

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.



Sealed Box

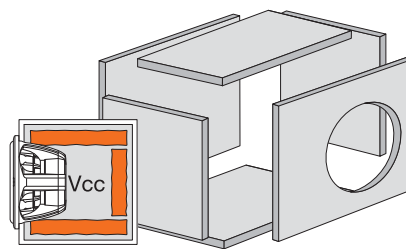
V_{cc} = 17,08 l
F_c = 57 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.

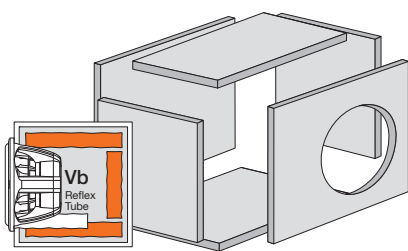


Sealed Box

V_{cc} = 26,30 l
F_c = 50 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

Reflex Box

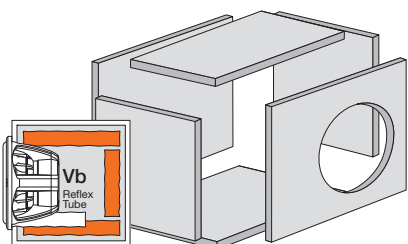
V_b = 21,95 l
F_b = 44 Hz

Reflex Tube

Ø = AR 70
L = 210 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

Reflex Box

V_b = 34,88 l
F_b = 40 Hz

Reflex Tube

Ø = AR 80V
L = 220 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.

SUB WOOFER

Hi Energy

HX 300D 1200 Watt



Technical Specifications

Component	Dual coil Subwoofer	
Size	mm	320 (12")
Power Handling	W peak	1200
	W continuous	600
Impedance	Ω	4 + 4
Frequency response	Hz	28 ÷ 700
Sensitivity	dB/SPL	90
Outer Ø	mm	318
Mounting Ø	mm	284
Total depth	mm	190
Mount. depth	mm	162
Magnet size	mm	190
Total driver displacement	l	2,9
Weight of one component	kg	9,7
Voice coil Ø	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

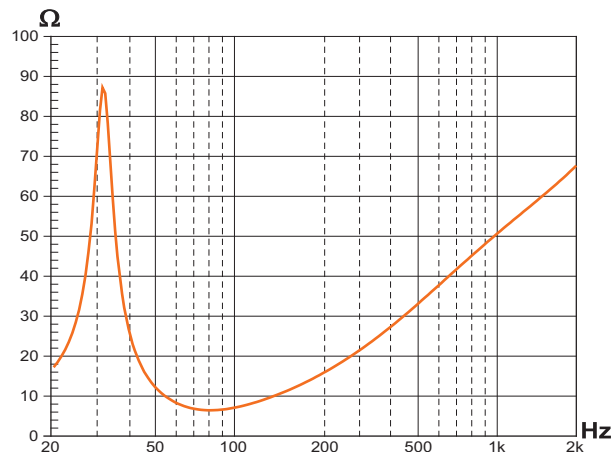
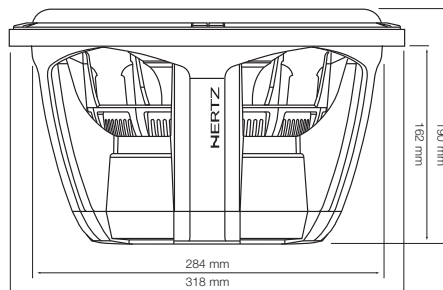
Xmech* maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

Electro-Acoustic Parameters *

D	mm	253
Xmax	mm	14
Re	Ω	5,8
Fs	Hz	31
Le	mH@1kHz	7,28
Le	mH@10kHz	2,59
Vas	l	43,47
Mms	g	211,9
Cms	mm/N	0,12
BL	T-m	23,27
Qts		0,41
Qes		0,43
Qms		6,90
Spl (1m/2,83V)	dB	90

*Coils in series

- 1 Low incidence five spoke, anti-resonant aluminium alloy basket.
- 2 Front-Back gasket.
- 3 V-cone® with Polypropylene membrane stiffened with mineral powders.
- 4 High excursion surround.
- 5 Black nomex spider.
- 6 Extended pole.
- 7 Aluminium former and high temperature pure copper voice coil.
- 8 Oversized motor with forced ventilation system.
- 9 Butyl rubber protective ring for acoustic damping.
- 10 Easy to access, oversized terminals for high-grade cable termination.
- 11 Double voice coil to improve versatility and power.



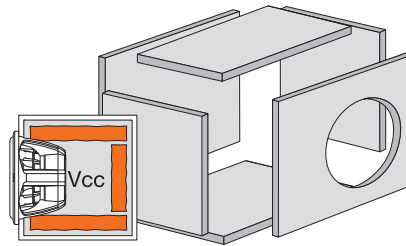
design

HX300D

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.



Sealed Box

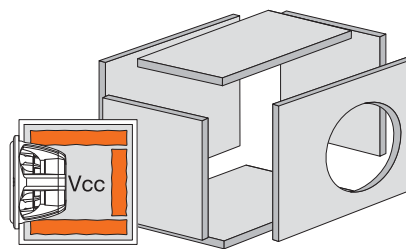
Vcc = 17,08 l
Fc = 57 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.

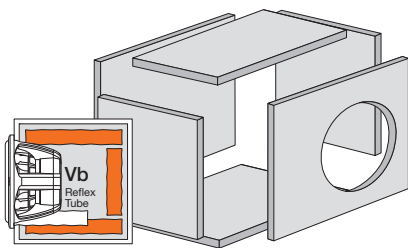


Sealed Box

Vcc = 26,30 l
Fc = 50 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

Reflex Box

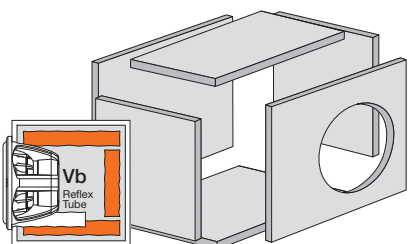
Vb = 21,95 l
Fb = 44 Hz

Reflex Tube

Ø = AR 70
L = 210 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

Reflex Box

Vb = 34,88 l
Fb = 40 Hz

Reflex Tube

Ø = AR 80V
L = 220 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.

SUB Hi Energy WOOFER

HX 380 1400 Watt

Technical Specifications

Component	Single coil Subwoofer	
Size	mm	380 (15")
Power Handling	W peak	1400
	W continuous	700
Impedance	Ω	4
Frequency response	Hz	25 ÷ 600
Sensitivity	dB/SPL	92
Outer \varnothing	mm	391
Mounting \varnothing	mm	351
Total depth	mm	202
Mount. depth	mm	174
Magnet size	mm	190
Total driver displacement	l	3,5
Weight of one component	kg	10,1
Voice coil \varnothing	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

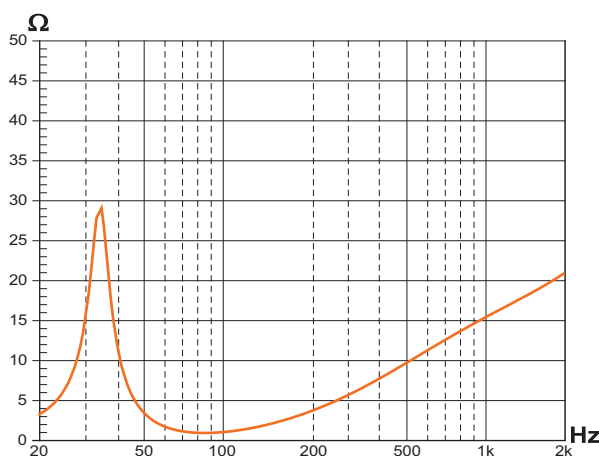
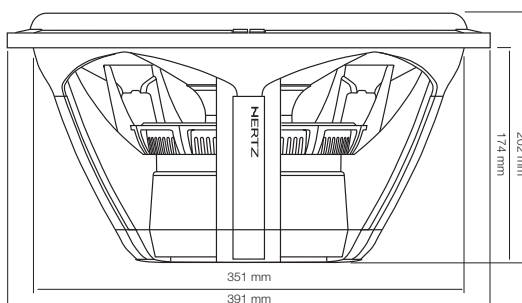
Xmech* maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

Electro-Acoustic Parameters

D	mm	320
Xmax	mm	14
Re	Ω	2,9
Fs	Hz	30
Le	mH@1kHz	1,88
Le	mH@10kHz	0,61
Vas	l	123,20
Mms	g	203,8
Cms	mm/N	0,13
BL	T-m	13,17
Qts		0,55
Qes		0,62
Qms		4,80
Spl (1m/2,83V)	dB	92



- 1 Low incidence five spoke, anti-resonant aluminium alloy basket.
- 2 Front-Back gasket.
- 3 V-cone® with Polypropylene membrane stiffened with mineral powders.
- 4 High excursion surround.
- 5 Black nomex spider.
- 6 Extended pole.
- 7 Aluminium former and high temperature pure copper voice coil.
- 8 Oversized motor with forced ventilation system.
- 9 Butyl rubber protective ring for acoustic damping.
- 10 Easy to access, oversized terminals for high-grade cable termination.



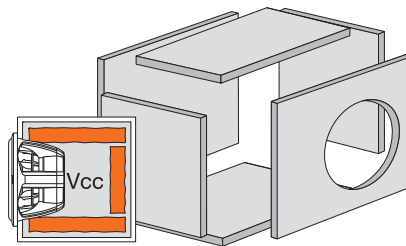
design

HX 380

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.



Sealed Box

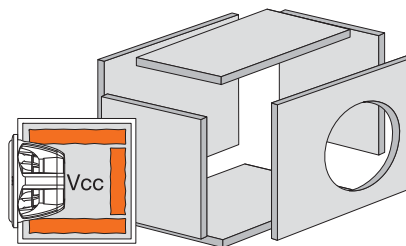
Vcc = 22,02 l
Fc = 61 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.

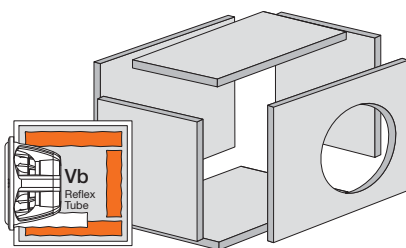


Sealed Box

Vcc = 39,42 l
Fc = 50 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

Reflex Box

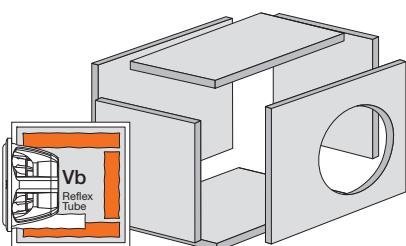
Vb = 39,42 l
Fb = 32 Hz

Reflex Tube

Ø = AR 80V
L = 220 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

Reflex Box

Vb = 60,10 l
Fb = 31 Hz

Reflex Tube

Ø = AR 100V
L = 250 mm

Damping material:

FONOFORM on all the inside walls except for the speaker's.

SUB WOOFER

HI energy

HX 380D 1400 Watt

Technical Specifications

Component	Dual coil Subwoofer	
Size	mm	380 (15")
Power Handling	W peak	1400
	W continuous	700
Impedance	Ω	4 + 4
Frequency response	Hz	25 ÷ 600
Sensitivity	dB/SPL	92
Outer \varnothing	mm	391
Mounting \varnothing	mm	351
Total depth	mm	202
Mount. depth	mm	174
Magnet size	mm	190
Total driver displacement	l	3,5
Weight of one component	kg	10,1
Voice coil \varnothing	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

Xmech* maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

Electro-Acoustic Parameters *

D	mm	320
Xmax	mm	14
Re	Ω	5,8
Fs	Hz	27
Le	mH@1kHz	7,40
Le	mH@10kHz	2,61
Vas	l	130,60
Mms	g	252,1
Cms	mm/N	0,14
BL	T-m	23,22
Qts		0,41
Qes		0,43
Qms		6,20
Spl (1m/2,83V)	dB	92

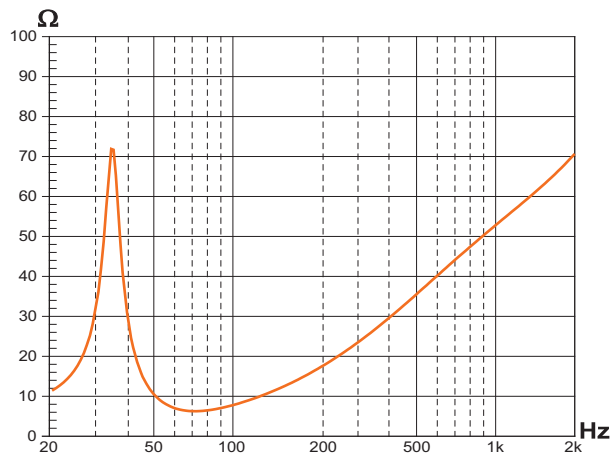
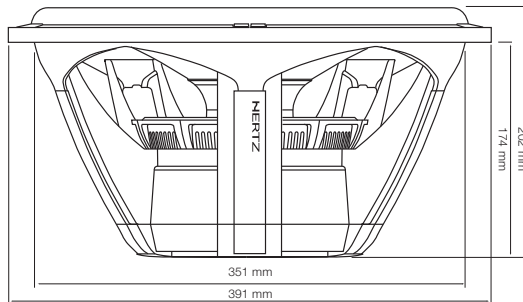
*Coils in series



FRONT BACK GASKET



- 1 Low incidence five spoke, anti-resonant aluminium alloy basket.
- 2 Front-Back gasket.
- 3 V-cone® with Polypropylene membrane stiffened with mineral powders.
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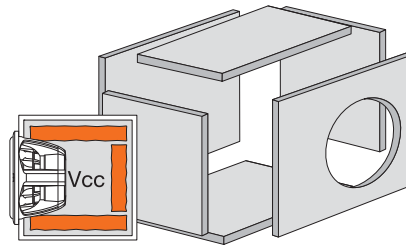
design

HX 380D

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.



Sealed Box

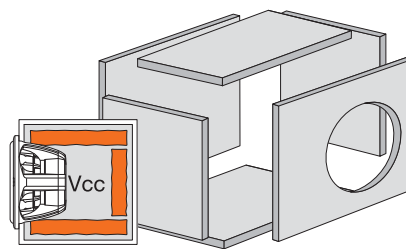
V_{cc} = 22,02 l
F_c = 61 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.

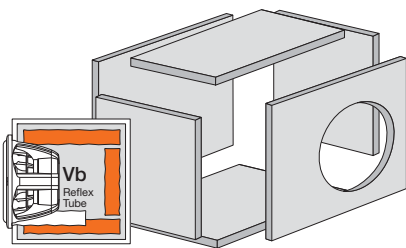


Sealed Box

V_{cc} = 39,42 l
F_c = 50 Hz

Damping material:

FONOFORM on all the inside walls except for the speaker's.



Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

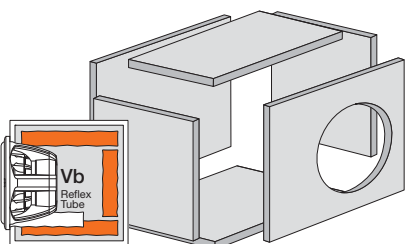
Damping material:

FONOFORM on all the inside walls except for the speaker's.

Reflex Box

V_b = 39,42 l
F_b = 32 Hz

Reflex Tube
Ø = AR 80V
L = 220 mm



Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

Damping material:

FONOFORM on all the inside walls except for the speaker's.

Reflex Box

V_b = 60,10 l
F_b = 31 Hz

Reflex Tube
Ø = AR 100V
L = 250 mm