

**AUDIO  
SYSTEM**

SPEAKER PROGRAM

Feel the

PRO

PRESSURE

POWER



Potenti Bassboxes pronti all'uso  
Powerfull bassboxes, ready to use



Fatti per mantenere a lungo le prestazioni  
Designed for long-term performance maintaining



Soluzioni di pregio anche sui modelli più semplici  
Valued features also in simple models



SPL

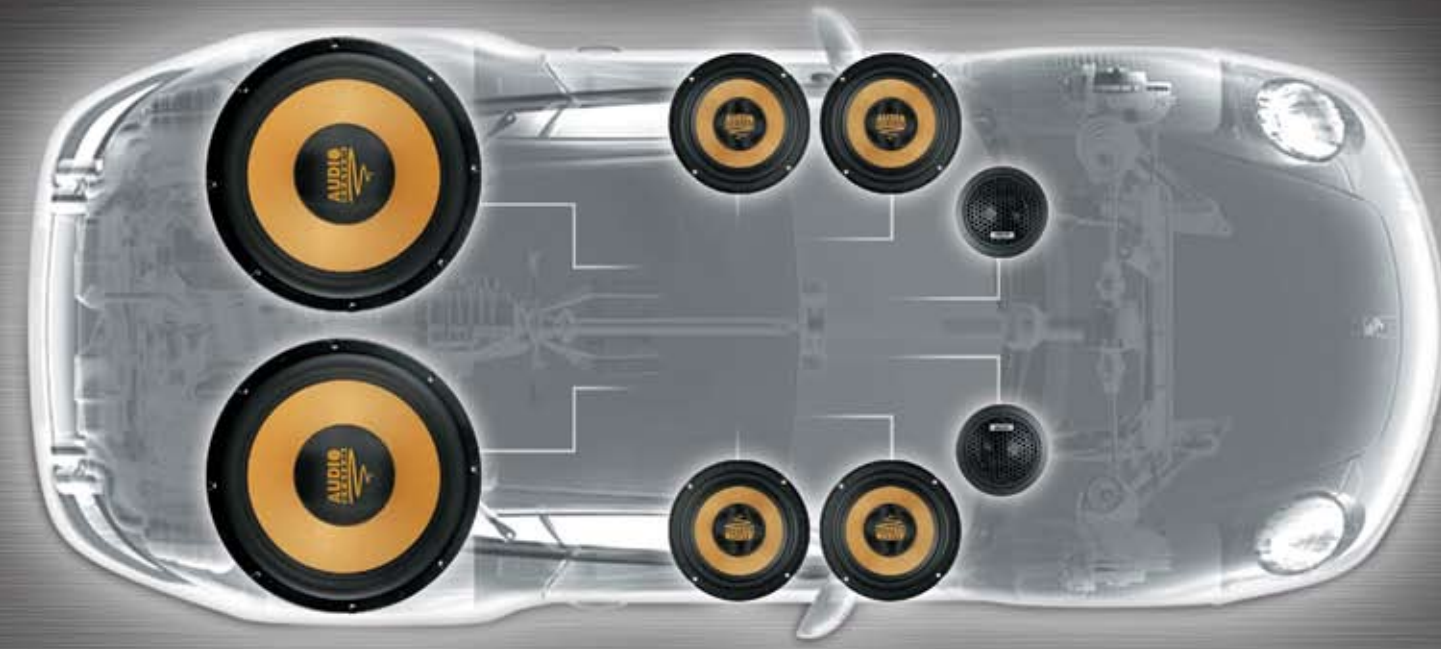
RADION

MX

COMPETITION

HX

CO



Thiele & Small parameters

	Radion 10	Radion 12	Radion 15	X-10N 10	X-10N 12	X-10N 15	X-10N 12 DVC	X-10N 15 DVC	Helon12SPL	Helon15SPL
Rdc	3,8 Ohm	3,8 Ohm	3,4 Ohm	3,9 Ohm	3,6 Ohm	3,6 Ohm	2x 3,5 Ohm	2x 3,7 Ohm	2x 1,9 Ohm	2x 1,9 Ohm
Qms	3,9	4,2	4,95	3,76	3,12	3,22	3,26	2,88	1,37	1,9
Qes	0,57	0,53	0,56	0,67	0,49	0,39	0,45	0,32	0,39	0,59
Qts	0,5	0,47	0,51	0,57	0,42	0,35	0,40	0,29	0,3	0,45
Fs	41 Hz	30,5 Hz	28 Hz	38 Hz	29 Hz	26 Hz	31 Hz	31 Hz	42 Hz	36 Hz
Va s	34 L	93 L	175 L	31 L	64 L	122 L	39 L	84 L	30 L	64 L
Mms	74 g	113 g	177,9 g	85 g	161,9 g	261 g	195 g	289 g	264 g	298 g
Cms	200 µm/N	240 µm/N	173 µm/N	200 µm/N	180 µm/N	140 µm/N	106 µm/N	87 µm/N	52 µm/N	66 µm/N
BL	11,3 Tm	12 Tm	14,17 Tm	10,8 Tm	14,7 Tm	20,1 Tm	28 Tm	19,5 Tm	26 Tm	20,2 Tm
SPL	94,5 db	95,5 db	94 db	94 db	95db	95,5db	95db	95,5db	95db	95db
RMS	200 Watt	300 Watt	400 Watt	300 Watt	450 Watt	600 Watt	600 Watt	800 Watt	2x800 Watt	2x1000 Watt
Max power	300 Watt	450 Watt	600 Watt	450 Watt	650 Watt	900 Watt	900 Watt	1200 Watt	2x1600 Watt	2x1500 Watt
X-max (+-)	7 mm	8 mm	10 mm	10 mm	16 mm	16 mm	17 mm	17 mm	25 mm	25 mm
Depth	125mm	137mm	171mm	141mm	159mm	204mm	159mm	204mm	199mm	218mm
Diameter	226mm	276mm	351mm	226mm	277mm	351mm	277mm	351mm	277mm	357mm

Composizione dei sistemi - Speaker systems' parts

	HX reference speaker systems				RX professional speaker systems			
	HX-165PHASE	HX-165DUST	HX-165-4	HX-165SQ	HX-130SQ	RX-165KPRO	RX-165XLPRO	RX-165PRO
MIDBASS	2 x EX 165 PHASE	2 x EX 165 DUST	2 x EX 165 PHASE + 2 x EX 165 DUST	2 x EX 165 SQ	2 x EX 130 SQ	4 x AX 165 K	4 x AX 165 XL	2 x AX 165 K
TWEETER	2 x HS 25 VOL	2 x HS 25 VOL	2 x HS 25 VOL	2 x HS 25 SQ	2 x HS 25 SQ	2 x HS 25 PRO	2 x HS 25 PRO	2 x HS 25 PRO
X-OVER	2 x FW HX1	2 x FW HX	2 x FW HX1	2 x FW X	2 x FW X	2 x FW X	2 x FW X	2 x FW X

	X-10N speaker systems			RADION speaker systems			MX line speaker systems		
	X-165	X-130	X-100	R-165	R-130	R-100	MX-165	MX-130	MX-100
MIDBASS	2 x AS 165 C	2 x AS 130 C	2 x AS 100 C	2 x AS 165 C	2 x AS 130 C	2 x AS 100 C	2 x MS 165 PLUS	2 x MS 130 PLUS	2 x MS 100 PLUS
TWEETER	2 x HS 25 PRO	2 x HS 25 PRO	2 x HS 25 PRO	2 x HS 19	2 x HS 19	2 x HS 19	2 x HS 19 W	2 x HS 19 W	2 x HS 19 W
X-OVER	2 x FW X	2 x FW X	2 x FW X	2 x FW R	2 x FW R	2 x FW R	2 x MINI FW	2 x MINI FW	2 x MINI FW

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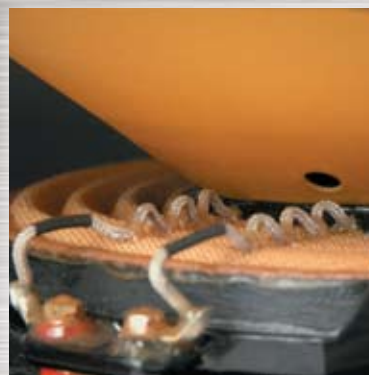
CODICE 880011010



Gruppi magnetici ad alte prestazioni  
High performance magnetic packs



Fibra di vetro e Kevlar, leggeri e robusti  
Fiberglass and Kevlar, light and strong



Elevata tenuta in potenza  
High power management



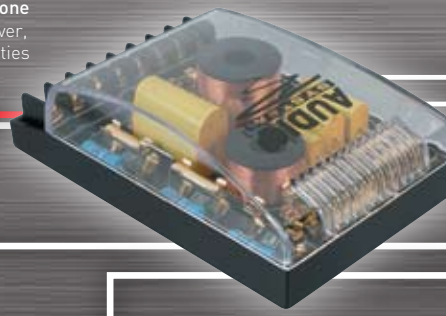
Nuovi sistemi di raffreddamento  
Innovative cooling systems



Resistenti agli stress più elevati  
Heavy-duty and stress resistant



Crossover ultra-flessibili, oltre 150 possibilità di regolazione  
Extremely versatile crossover, more than 150 tuning possibilities



Tweeters al neodimio efficienti e lineari  
Efficient and linear Neodymium tweeters



Alta pressione su tutta la gamma  
Full range high pressure

vibration



Materiali tecnologici modellati dal suono  
Sound-shaped high tech materials



Cura nei dettagli fino al più piccolo particolare  
Great care on every little detail



SPL, ma anche qualità audiophile  
SPL, but also audiophile quality

## HELON SPL Subwoofers

### H-15SPL

HIGH PERFORMANCE SPL SUBWOOFER

Subwoofer High-Tech 380mm | Membrana in fibra di vetro cucita alla sospensione | Cestello in pressofusione di alluminio a profilo aerodinamico | Doppia bobina 100mm 2+2ohm a sezione piatta | Sistema di ventilazione a condotti multipli | Triplo magnete | Doppio centratore | Potenza applicabile 2x1000 watt RMS | Impiego ideale in box accordato di medie/grandi dimensioni

380mm High-Tech Subwoofer | Fiberglass cone sewed to the suspension | Diecast aluminium basket with aerodynamic design | Double 100mm flat wires voice coil 2+2ohm | Multiple holes cooling system | Triple magnet | Double spider | Power handling 2x1000 watt RMS | Best performances in medium/large size vented box



### H-12SPL

HIGH PERFORMANCE SPL SUBWOOFER

Subwoofer High-Tech 300mm | Membrana in fibra di vetro cucita alla sospensione | Cestello in pressofusione di alluminio a profilo aerodinamico | Doppia bobina 100mm 2+2ohm a sezione piatta | Sistema di ventilazione a condotti multipli | Triplo magnete | Doppio centratore | Potenza applicabile 2x800 watt RMS | Impiego ideale in box accordato di medie/grandi dimensioni

300mm High-Tech Subwoofer | Fiberglass cone sewed to the suspension | Diecast aluminium basket with aerodynamic design | Double 100mm flat wires voice coil 2+2ohm | Multiple holes cooling system | Triple magnet | Double spider | Power handling 2x800 watt RMS | Best performances in medium/large size vented box

### X-10 SUBWOOFER

Subwoofer High-Tech 250mm | Membrana in fibra di vetro | Cestello in pressofusione di alluminio | Bobina 50mm | Potenza applicabile 300 watt RMS | Impiego ideale in box chiuso di piccole dimensioni

250mm High-Tech Subwoofer | Fiberglass cone | Diecast aluminium basket | 50mm voice coil | Power handling 300 watt RMS | Best performances in small size closed box



### X-15 SUBWOOFER

Subwoofer High-Tech 380mm | Membrana in fibra di vetro cucita alla sospensione | Cestello in pressofusione di alluminio | Bobina 75mm 4+4ohm | Doppio centratore | Potenza applicabile 2x400 watt RMS | Impiego ideale in box accordato di medie dimensioni

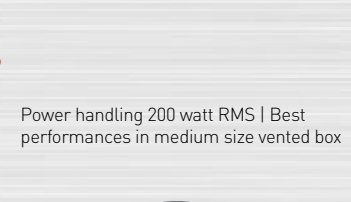
380mm High-Tech Subwoofer | Fiberglass cone | Diecast aluminium basket | 75mm voice coil | Power handling 400 watt RMS | Best performances in medium size vented box



### X-12 SUBWOOFER

Subwoofer High-Tech 300mm | Membrana in fibra di vetro cucita alla sospensione | Cestello in pressofusione di alluminio | Doppia bobina 75mm 4+4ohm | Doppio centratore | Potenza applicabile 2x300 watt RMS | Impiego ideale in box accordato di medie dimensioni

300mm High-Tech Subwoofer | Fiberglass cone | Diecast aluminium basket | 75mm voice coil | Power handling 450 watt RMS | Best performances in small size closed box



## X--ION LINE Subwoofers

### X-15DVC

HIGH PERFORMANCE SUBWOOFER

Subwoofer High-Tech 380mm | Membrana in fibra di vetro cucita alla sospensione | Cestello in pressofusione di alluminio | doppia bobina 75mm 4+4ohm | Doppio centratore | Potenza applicabile 2x400 watt RMS | Impiego ideale in box accordato di medie dimensioni

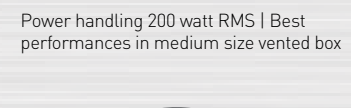
380mm High-Tech Subwoofer | Fiberglass cone sewed to the suspension | Diecast aluminium basket | Double 75mm voice coil 4+4ohm | Double spider | Power handling 2x400 watt RMS | Best performances in medium size vented box

### X-12DVC

HIGH PERFORMANCE SUBWOOFER

Subwoofer High-Tech 300mm con membrana in fibra di vetro cucita alla sospensione | Cestello in pressofusione di alluminio | Doppia bobina 75mm 4+4ohm | Doppio centratore | Potenza applicabile 2x300 watt RMS | Impiego ideale in box accordato di medie dimensioni

300mm High-Tech Subwoofer | Fiberglass cone sewed to the suspension | Diecast



RMS | Impiego ideale in box accordato di medie dimensioni

### R-10 SUBWOOFER

Subwoofer 250mm | Membrana in composito di fibre high-tech | Bobina 38mm | Potenza applicabile 200 watt RMS | Impiego ideale in box accordato di piccole dimensioni

250mm Subwoofer | High-Tech fibers compound cone | 38mm voice coil |

Subwoofer 380mm | Membrana in composito di fibre high-tech | Bobina 63mm | Potenza applicabile 400 watt RMS | Impiego ideale in box accordato di medie dimensioni

380mm Subwoofer | High-Tech fibers compound cone | 63mm voice coil | Power handling 400 watt RMS | Best performances in medium size vented box

### R-12 SUBWOOFER

Subwoofer 300mm | Membrana in composito di fibre high-tech | Bobina 50mm | Potenza applicabile 300 watt

## MX LINE Subwoofers

### MX-12BR

SUBWOOFER IN CASSA

Bass Reflex | Altoparlante diametro 300mm con membrana in fibra di vetro | Potenza applicabile 250 Watt

## HX LINE Reference Speaker Systems

### HX-165PHASE

TWO WAYS REFERENCE SYSTEM

Mediobasso da 165mm [EX 165 PHASE] con cestello DIN in alluminio pressofuso | Membrana in fibra di cellulosa e fibra di vetro accoppiata a sandwich su trama di seta | Bobina 38mm | Riferimento ad ogiva in alluminio tornito | Tweeter a cupola da 25mm [HS 25 VOL] | Corpo in alluminio con camera di risonanza | Magnete al neodimio | Ferrofluido a bassa densità | Crossover di riferimento a 2 vie 12 db/oct (FW HX1) con regolazione per mediobasso e tweeter | Potenza applicabile 140 watt RMS | Contenitore in alluminio | Costruito in Germania

### HX-165DUST

TWO WAYS TOP LEVEL SYSTEM

Mediobasso da 165mm [EX 165 DUST] con cestello DIN in alluminio pressofuso | Membrana in fibra di cellulosa e fibra di vetro accoppiata a sandwich su trama di seta | Bobina 38mm | Parapolvere in tessuto trattato | Tweeter a cupola da 25mm [HS 25 VOL] | Corpo in alluminio con camera di risonanza | Magnete al neodimio | Ferrofluido a bassa densità | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Potenza applicabile 140 watt RMS | Costruito in Germania

165mm Midbass [EX 165 DUST] DIN size diecast aluminium basket | Fiberglass/paper-paste coupled with silk fabric sandwich cone | 38mm voice coil | Treated fabric dust cup | 25mm dome Tweeter [HS 25 VOL] | Aluminium housing with resonance chamber | Neodymium magnet | Low-density ferrofluid | Two ways 12 db/oct Crossover

### HX-165SQ

TWO WAYS SYSTEM

Mediobasso da 165mm [EX 165 SQ] con cestello DIN in acciaio | Membrana in fibra di cellulosa e fibra di vetro accoppiata a sandwich su trama di seta | Bobina 25mm | Parapolvere in tessuto trattato | Tweeter a cupola da 25mm [HS 25 SQ] | Magnete al neodimio | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Potenza applicabile 100 watt RMS | Costruito in Germania

165mm Midbass [EX 165 SQ] DIN size iron basket | Fiberglass/paper-paste coupled with silk fabric sandwich cone | 25mm voice coil | Treated fabric dust cup | 25mm dome Tweeter [HS 25 SQ] | Neodymium magnet | Two ways 12

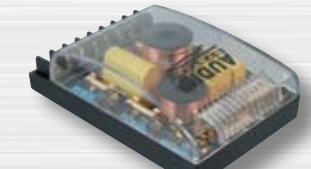
db/oct Crossover (FW X) with more than 150 regulations for midbass and tweeter | Power handling 100 watt RMS | Made in Germany

### HX-130SQ

TWO WAYS SYSTEM

Stesse caratteristiche del sistema HX-165SQ ma con Mediobasso da 130mm [EX 130 SQ] | Potenza applicabile 90 watt RMS

Same features as HX-165SQ system but with 135mm Midbass [EX 130 SQ] | Power handling 90 watt RMS



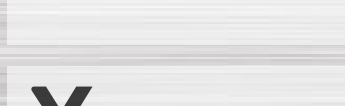
## RX LINE Professional Speaker systems

### RX-165KPRO

4 MIDBASSES TWO WAYS PRO "SOUND QUALITY" SYSTEM

Mediobasso da 165mm [AX 165 K] | Membrana in composito di fibre high-tech | Cestello in alluminio pressofuso | Bobina 32mm | Tweeter a cupola da 25mm [HS 25 PRO] con accessori di montaggio | Magnete al neodimio | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Impedenza 2ohm | Potenza applicabile 2x250 watt RMS

165mm Midbass [AX 165 K] | High-Tech fibers compound cone | Diecast aluminium basket | 32mm voice coil | 25 mm dome Tweeter [HS 25 PRO] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW X) with more than 150 regulations for midbass and tweeter | 2 ohm impedance | Power handling 2x250 watt RMS



## X--ION LINE Speaker systems

### X-165

TWO WAYS SYSTEM

Mediobasso da 165mm [AS 165 C] | Membrana in kevlar | Tweeter a cupola da 25mm [HS 25 PRO] con accessori di montaggio | Magnete al neodimio | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Potenza applicabile 140 watt RMS

165mm Midbass [AS 165 C] | Kevlar cone | 25 mm dome Tweeter [HS 25 PRO] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW X) with more than 150 regulations for midbass and tweeter | Power handling 140 watt RMS



### RX-165XLPRO

4 MIDBASSES TWO WAYS PRO "SUPER POWER" SYSTEM

Mediobasso da 165mm [AX 165 XL] | Membrana in composito di fibre high-tech | Cestello in alluminio pressofuso | Bobina 38mm | Tweeter a cupola da 25mm [HS 25 PRO] con accessori di montaggio | Magnete al neodimio | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Impedenza 2ohm | Potenza applicabile 2x280 watt RMS

165mm Midbass [AX 165 XL] | High-Tech fibers compound cone | Diecast aluminium basket | 38mm voice coil | 25 mm dome Tweeter [HS 25 PRO] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW X) with more than 150 regulations for midbass and tweeter | Power handling 2x280 watt RMS



### RX-165PRO

TWO WAYS PRO "SOUND QUALITY" SYSTEM

Mediobasso [AX 165 K] da 165mm | Membrana in composito di fibre high-tech | Cestello in alluminio pressofuso | Bobina 32mm | Tweeter a cupola da 25mm [HS 25 PRO] con accessori di montaggio | Magnete al neodimio | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Potenza applicabile 250 watt RMS

165mm Midbass [AX 165 K] | High-Tech fibers compound cone | Diecast aluminium basket | 32mm voice coil | 25 mm dome Tweeter [HS 25 PRO] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW X) with more than 150 regulations for midbass and tweeter | Power handling 250 watt RMS

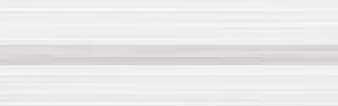


### X-100

TWO WAYS SYSTEM

Mediobasso da 100mm [AS 100 C] | Membrana in kevlar | Tweeter a cupola da 25mm [HS 25 PRO] con accessori di montaggio | Magnete al neodimio | Crossover (FW X) a due vie 12 db/oct. con oltre 150 regolazioni per mediobasso e tweeter | Potenza applicabile 110 watt RMS

100mm Midbass [AS 100 C] | Kevlar cone | 25 mm dome Tweeter [HS 25 PRO] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW X) with more than 150 regulations for midbass and tweeter | Power handling 110 watt RMS



## RADION Speaker systems

### R-165

TWO WAYS SYSTEM

Mediobasso da 165mm [AS 165 C] | Membrana in kevlar | Tweeter a cupola 19mm [HS 19] con accessori di montaggio | Magnete al neodimio | Crossover (FW R) a due vie 12 db/oct. con 3 regolazioni per mediobasso e 3 per tweeter | Potenza applicabile 90 watt RMS

165mm Midbass [AS 165 C] | Kevlar cone | 19 mm dome Tweeter [HS 19] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW R) with 3 regulations for midbass and 3 for tweeter | Power handling 90 watt RMS

### R-130

TWO WAYS SYSTEM

Mediobasso da 130mm [AS 130 C] | Membrana in kevlar | Tweeter a cupola da 19mm [HS 19] con accessori di montaggio | Magnete al neodimio | Crossover (FW R) a due vie 12 db/oct. con 3 regolazioni per mediobasso e 3 per tweeter | Potenza applicabile 80 watt RMS

130mm Midbass [AS 130 C] | Kevlar cone | 19 mm dome Tweeter [HS 19] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW R) with 3 regulations for midbass and 3 for tweeter | Power handling 80 watt RMS

## MX LINE Speaker systems

### MX-165

TWO WAYS SYSTEM

Mediobasso da 165mm [MS 165 PLUS] | Membrana in fibra di vetro | Tweeter a cupola [HS 19 W] da 19mm | Magnete al neodimio | Crossover per Tweeter [MINI FW] 12db/oct | Potenza applicabile 80 Watt RMS

165mm Midbass [MS 165 PLUS] | Fiberglass cone | 19 mm dome Tweeter [HS 19 W] | Neodymium magnet | Tweeter 12 db/oct Crossover [MINI FW] | Power handling 80 watt RMS

## CO LINE Coaxial Speaker systems

### CO-609

COAXIAL TWO WAYS SYSTEM

Diametro 6x9" | Membrana in fibra di vetro | Tweeter a cupola da 25mm | Magnete al neodimio | Crossover per Tweeter [MINI FW] 12db/oct | Potenza applicabile 140 watt RMS

6x9" size | Fiberglass cone | 25mm dome tweeter | Neodymium magnet | Tweeter 12 db/oct Crossover [MINI FW] | Power handling 140 watt RMS

### CO-165

COAXIAL TWO WAYS SYSTEM

Diametro 165mm | Membrana in fibra di vetro | Tweeter a cupola da 19mm | Magnete al neodimio | Potenza applicabile 80 watt RMS

165mm size | Fiberglass cone | 19mm

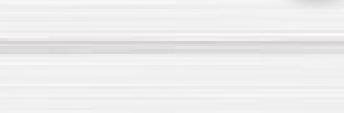
130mm Midbass [AS 130 C] | Kevlar cone | 19 mm dome Tweeter [HS 19] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW R) with 3 regulations for midbass and 3 for tweeter | Power handling 80 watt RMS

### R-100

TWO WAYS SYSTEM

Mediobasso da 100mm [AS 100 C] | Membrana in kevlar | Tweeter a cupola 19mm [HS 19] con accessori di montaggio | Magnete al neodimio | Crossover (FW R) a due vie 12 db/oct. con 3 regolazioni per mediobasso e 3 per tweeter | Potenza applicabile 70 watt RMS

100mm Midbass [AS 100 C] | Kevlar cone | 19 mm dome Tweeter [HS 19] with mounting accessories | Neodymium magnet | Two ways 12 db/oct Crossover (FW R) with 3 regulations for midbass and 3 for tweeter | Power handling 70 watt RMS



### MX-130

TWO WAYS SYSTEM

Mediobasso da 130mm [MS 130 PLUS] | Membrana in fibra di vetro | Tweeter a cupola [HS 19 W] da 19mm | Magnete al neodimio | Crossover per Tweeter [MINI FW] 12db/oct | Potenza applicabile 70 Watt RMS

130mm Midbass [MS 130 PLUS] | Fiberglass cone | 19 mm dome Tweeter [HS 19 W] | Neodymium magnet | Tweeter 12 db/oct Crossover [MINI FW] | Power handling 70 watt RMS

### CO-100

COAXIAL TWO WAYS SYSTEM

Diametro 100mm | Membrana in fibra di vetro | Tweeter a cupola da 19mm | Magnete al neodimio | Potenza applicabile 60 watt RMS

100mm size | Fiberglass cone | 19mm dome tweeter | Neodymium magnet | Power handling 60 watt RMS

130mm size | Fiberglass cone | 19mm dome tweeter | Neodymium magnet | Power handling 70 watt RMS

Diametro 100mm | Membrana in fibra di vetro | Tweeter a cupola da 19mm | Magnete al neodimio | Potenza applicabile 60 watt RMS

Diametro 100mm | Membrana in fibra di vetro | Tweeter a cupola da 19mm | Magnete al neodimio | Potenza applicabile 60 watt RMS

