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# S

- 1\_MILLE
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- 5\_ACCESSORIES
- 6\_ELECTRONICS
- S\_SPACE

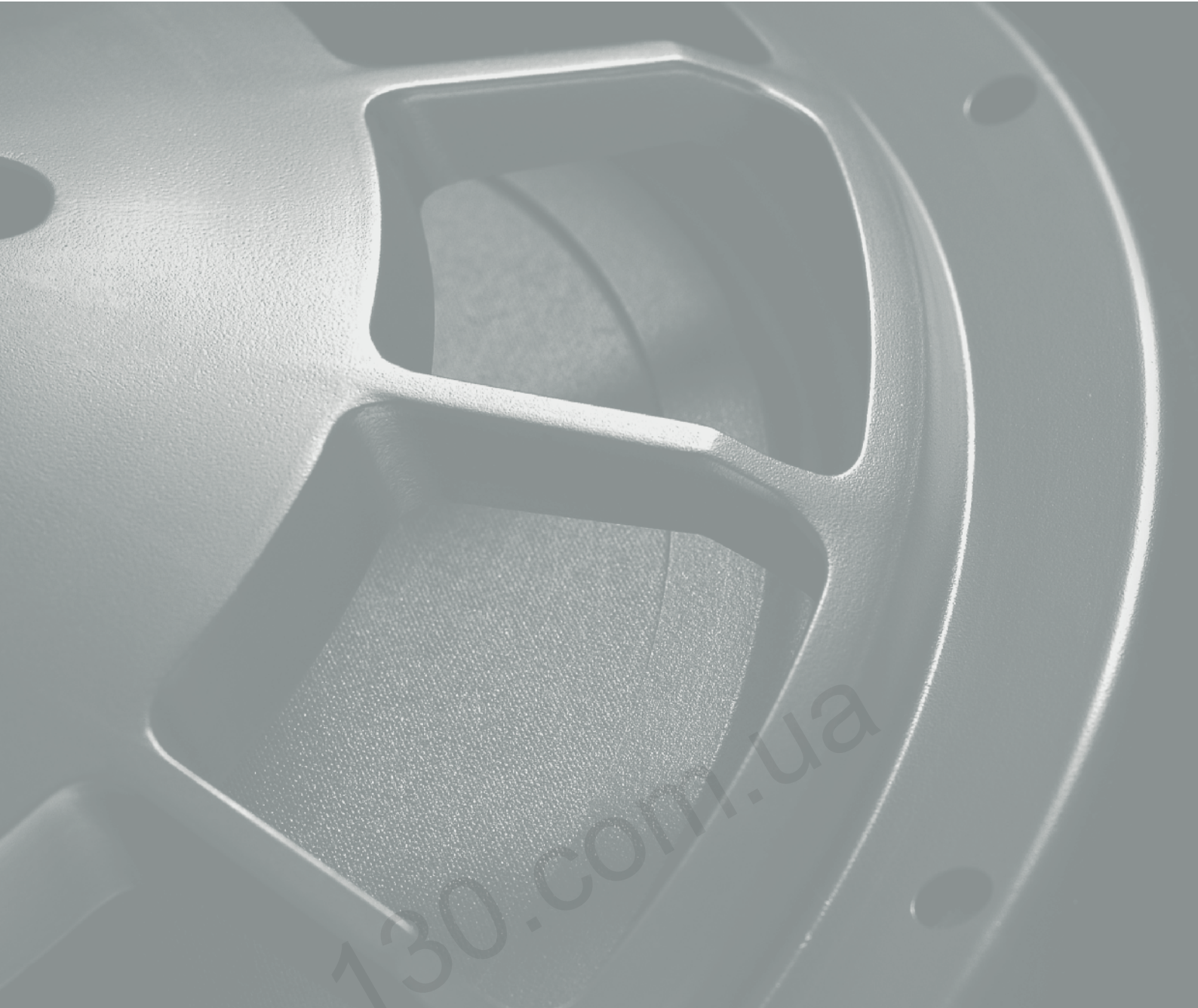


**SPACE**  
IT'S REAL X<sup>3</sup> (Slim + Light + Powerful)

[www.hertzaudiovideo.com](http://www.hertzaudiovideo.com)

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# SPACE

IT'S REAL X<sup>3</sup> (Slim + Light + Powerful)



**SPACE**

**IT'S REAL X<sup>3</sup> (Slim + Light + Powerful)**



CDC <sup>®</sup>	<b>Cylindrical Dust Cover<sup>®</sup></b>	Movement and Extension
DWR <sup>®</sup>	<b>Double Wave Rubber Surround<sup>®</sup></b>	Linearity and Excursion
Polycotton <sup>®</sup>	<b>Polycotton<sup>®</sup></b>	Rationality and Functionality
SC <sup>2</sup> B <sup>®</sup>	<b>Silver Copper Cotton Braid<sup>®</sup></b>	Elasticity and Sturdiness
PB <sup>®</sup>	<b>Polymer Basket<sup>®</sup></b>	Lightness and Stiffness
BFLR <sup>®</sup>	<b>Back Face Low Reflection<sup>®</sup></b>	Aerodynamics and Progress
RCD <sup>®</sup>	<b>Radial Cooling Ducts<sup>®</sup></b>	Transfer and Geometry
SFE <sup>®</sup>	<b>Symmetrical Field Engine<sup>®</sup></b>	Innovation and Energy
REN <sup>®</sup>	<b>Rare Earth Neodymium<sup>®</sup></b>	Compactness and Power
CRP <sup>®</sup>	<b>Copper Ring Pole<sup>®</sup></b>	Efficacy and Technics
BAS <sup>®</sup>	<b>Back Aluminium Heat Sink<sup>®</sup></b>	Thermodynamics and Precision
BAF <sup>®</sup>	<b>Black Aluminium Former<sup>®</sup></b>	Efficiency and Symmetry





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**SPACE L**

**IT'S REAL X<sup>3</sup> (Slim + Light + Powerful)**







CDC <sup>®</sup>	<b>Cylindrical Dust Cover<sup>®</sup></b>	Refinement and Solution
HPC <sup>®</sup>	<b>Hyperbolic Paper Cone<sup>®</sup></b>	Movement and Extension
DWR <sup>®</sup>	<b>Double Wave Rubber Surround<sup>®</sup></b>	Linearity and Excursion
Polycotton <sup>®</sup>	<b>Polycotton<sup>®</sup></b>	Rationality and Functionality
SC <sup>2</sup> B <sup>®</sup>	<b>Silver Copper Cotton Braid<sup>®</sup></b>	Elasticity and Sturdiness
PB <sup>®</sup>	<b>Polymer Basket<sup>®</sup></b>	Lightness and Stiffness
BFLR <sup>®</sup>	<b>Back Face Low Reflection<sup>®</sup></b>	Aerodynamics and Progress
RCD <sup>®</sup>	<b>Radial Cooling Ducts<sup>®</sup></b>	Transfer and Geometry
SFE <sup>®</sup>	<b>Symmetrical Field Engine<sup>®</sup></b>	Innovation and Energy
REN <sup>®</sup>	<b>Rare Earth Neodymium<sup>®</sup></b>	Compactness and Power
CRP <sup>®</sup>	<b>Copper Ring Pole<sup>®</sup></b>	Efficacy and Technics
BAF <sup>®</sup>	<b>Black Aluminium Former<sup>®</sup></b>	Technology and Lightness



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AS <sup>®</sup>	<b>Attenuation System<sup>®</sup></b>	Simplicity and Control
BSC <sup>®</sup>	<b>Best Sound Control<sup>®</sup></b>	Position and Perfection
TR <sup>®</sup>	<b>Triple Resistor Heat Sink<sup>®</sup></b>	Uniqueness and Power
PC <sup>®</sup>	<b>Polycarbonate Case<sup>®</sup></b>	Resistance and Beauty

**SPACE**

**IT'S REAL X<sup>3</sup> (Slim + Light + Powerful)**



HTG <sup>®</sup>	<b>High Transparency Protection Grille<sup>®</sup></b>	Protection and Transparency
Tetolon <sup>®</sup>	<b>Tetolon Fiber<sup>®</sup></b>	Uniqueness and Landmark
CDV <sup>®</sup>	<b>CCAW Duraluminium Voicecoil<sup>®</sup></b>	Technology and Lightness
SFE <sup>®</sup>	<b>Symmetrical Field Engine<sup>®</sup></b>	Innovation and Energy
REN <sup>®</sup>	<b>Rare Earth Neodymium<sup>®</sup></b>	Compactness and Power
CRP <sup>®</sup>	<b>Copper Ring Pole<sup>®</sup></b>	Efficacy and Technics
RVH <sup>®</sup>	<b>Radial Venting Holes<sup>®</sup></b>	Transfer and Geometry
BSB <sup>®</sup>	<b>Back Sealed Box<sup>®</sup></b>	Versatility and Performance



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**SPACE**

**IT'S REAL X<sup>3</sup> ( Slim + Light + Powerful )**



Mounting accessories given with SPACE 1



### SPACE 1

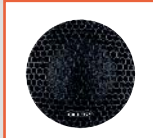
180 Watt  
28 mm  
Neodymium Tweeter  
91 dB/SPL



big chamber



small chamber



1. Housing for factory locations as big as 100 mm
2. Flush housing
3. Surface housing
4. 30° wedge housing
5. 60° wedge housing



### SPACE 6

200 Watt  
165 mm  
Neodymium Woofer  
91 dB/SPL



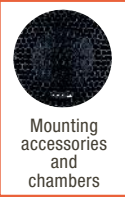
### SPACE 8

260 Watt  
200 mm  
Neodymium Woofer  
92 dB/SPL



## SPACE K6

250 Watt  
165 mm  
2 way system  
91 dB/SPL



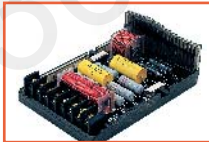
## SPACE K8

300 Watt  
200 mm  
2 way system  
92 dB/SPL



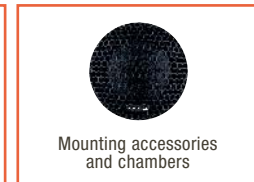
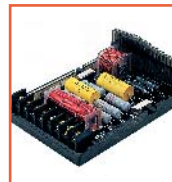
## SPACE K6L

200 Watt  
165 mm  
2 way system  
93 dB/SPL



## SPACE K8L

250 Watt  
200 mm  
2 way system  
93 dB/SPL



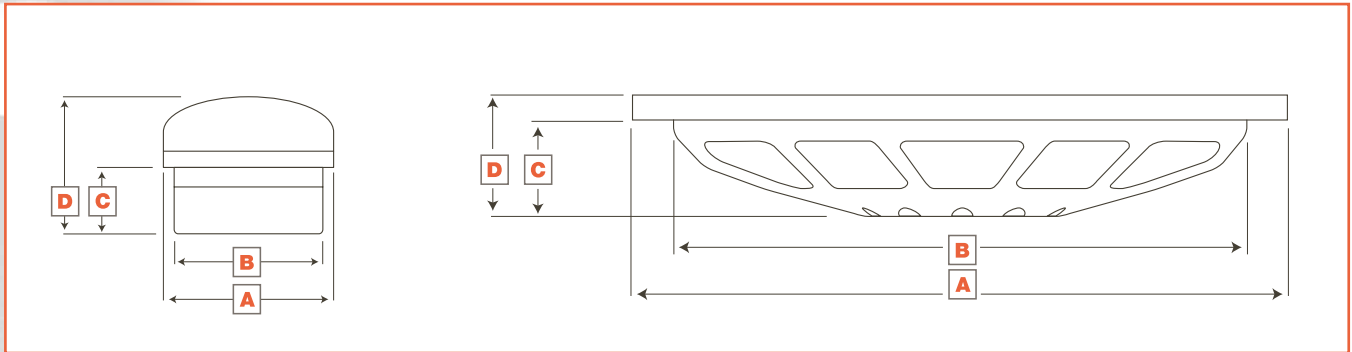
**SPACE**

**IT'S REAL X<sup>3</sup> (Slim + Light + Powerful)**



Technical specifications	SPACE 1 big chamber	SPACE 1 small chamber	SPACE 6	SPACE 8	SPACE 6L	SPACE 8L	SPACE K6	SPACE K8	SPACE K6L	SPACE K8L
<b>Component</b>	Tweeter	Tweeter	Woofer	Woofer	Woofer	Woofer	2 way System	2 way System	2 way System	2 way System
<b>Size</b> mm (inch) woofer midrange tweeter	28 (1"1/8)	28 (1"1/8)	165 (6"1/2)	200 (8")	165 (6"1/2)	200 (8")	165 (6"1/2) 28 (1"1/8)	200 (8") 28 (1"1/8)	165 (6"1/2) 28 (1"1/8)	200 (8") 28 (1"1/2)
<b>Power Handling</b> Watt peak contin. program	180 180W@1.8KH	180 180W@2.0KH	200 100	260 130	160 80	200 100	250 125	300 150	200 100	250 125
<b>Impedance</b> ohm	4	4	4	4	4	4	4	4	4	4
<b>Frequency response</b> Hz	950 - 25k	1300 - 25k	45 - 5,5k	40 - 4,8k	45 - 5k	40 - 4k	45-25k	40-25k	45-25k	40-25k
<b>Sensitivity</b> dB/SPL	91	91	91	92	93	93	91	92	93	93
<b>Voice coil diameter</b> mm	28	28	50	50	36	36				
<b>Magnet</b>	Neodymium REN®	Neodymium REN®	Neodymium REN®	Neodymium REN®	Neodymium REN®	Neodymium REN®				
<b>Cone / Dome</b>	Tetolon Fiber®	Tetolon Fiber®	Water repellent pressed paper	Water repellent pressed paper	Water repellent pressed paper	Water repellent pressed paper				
<b>Crossover included</b>							2,8kHz 12/12 dB Oct.	2,8kHz 12/12 dB Oct.	2,8kHz 12/12 dB Oct.	2,8kHz 12/12 dB Oct.
<b>Component Adjustment</b>							Tweeter: +2, 0, -2 dB	Tweeter: +2, 0, -2 dB	Tweeter: +2, 0, -2 dB	Tweeter: +2, 0, -2 dB
<b>Sound Control</b>							BSC®	BSC®	BSC®	BSC®

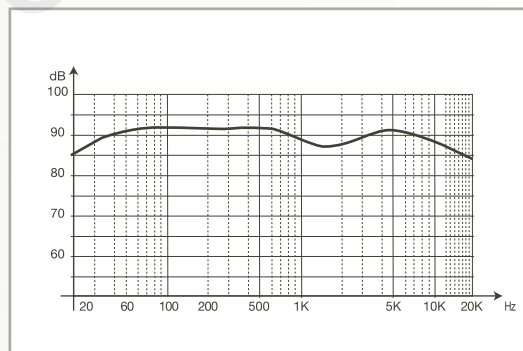
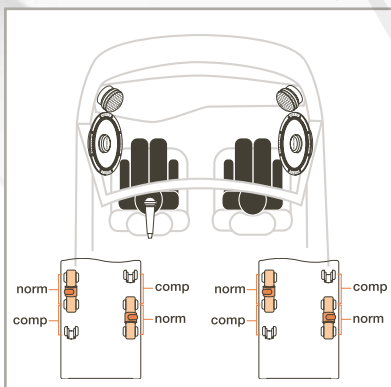
Electro-Acoustic parameters	SPACE 1 big chamber	SPACE 1 small chamber	SPACE 6	SPACE 8	SPACE 6L	SPACE 8L
<b>D</b> mm	28	28	128	166	128	166
<b>Xmax</b> mm	0	0	3	3	3	3
<b>Re</b> ohm	3	3	3	3	3	3
<b>Fs</b> Hz	920	1200	72	66	68	68
<b>Le</b> mH@1kHz	0,75	0,69	0,37	0,43	0,43	0,44
<b>Le</b> mH@10kHz	0,04	0,04	0,1	0,1	0,16	0,16
<b>Vas</b> lit	0	0	6,12	14,2	10,4	18
<b>Mms</b> gr	0	0	18,3	26,5	12,4	20,15
<b>Cms</b> mm/N	0	0	0,26	0,22	0,45	0,28
<b>BL</b> T-m	0	0	6,47	6,77	4,3	4,62
<b>Qts</b>	0,41	1,09	0,55	0,66	0,76	0,98
<b>Qes</b>	0,9	1,86	0,6	0,74	0,85	1,2
<b>Qms</b>	0,75	2,65	7,34	6,15	6,93	5,25
<b>Spl</b> dB	91	91	91	92	93	93



Technical specifications	SPACE 1 big chamber	SPACE 1 small chamber	SPACE 6	SPACE 8	SPACE 6L	SPACE 8L
Outer diameter mm	A 52	52	167	210	167	210
Mounting hole diameter mm	B 46	46	142	183	142	183
Mounting depth mm	C 35	26	47	51	47	51
Total depth mm	D 23	14	39	42	39	42
Weight of one component kg	0,085	0,079	0,640	0,760	0,320	0,440

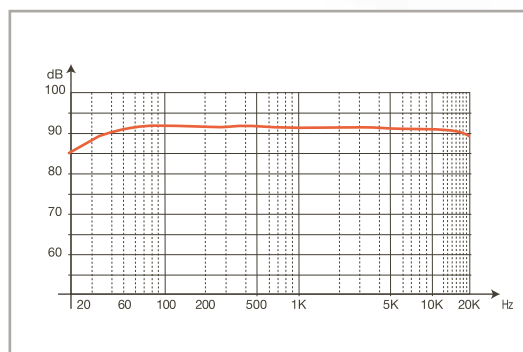
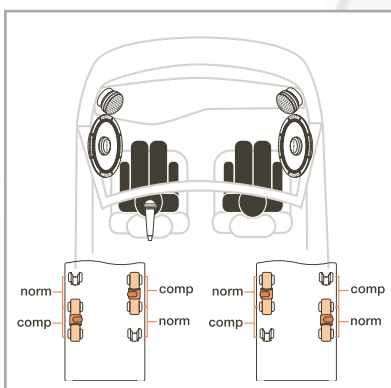


## Best Sound Control®



Standard System, BSC® off, both crossovers on norm

In standard installation conditions, the different position of Left and Right channels with regards to the listening point changes the width and phase of the perceived signal. You lose energy at high frequencies and the mid-frequency is slightly altered, too: sound is therefore unclear, as well as image is.



Driver alignment, left crossover on comp

If the two bridges of the left crossover are set on COMP and the ones of the right crossover are set on NORM, the left channel response is improved with regards to extension, sensitivity, phase and you get the same Ft as the right channel one. The sound image the driver perceives is in the center of the virtual stage; tonal accuracy gets colourless, clearer.

**1\_ Cylindrical Dust Cover®**

Cylindrical paper dust cover. Its geometric structure doesn't create any breaks in the cone. The cylinder non-deformability stiffens the most delicate part of the cone and insures excellent acoustic results.

**2\_ Hyperbolic Paper Cone®**

High pressure molded, water-repellent paper cone. Its special hyperbolic profile and its being fixed onto the surround stiffen the emitting device, increase the radiating surface and flatten high frequency response.

**3\_ Double Wave Rubber Surround®**

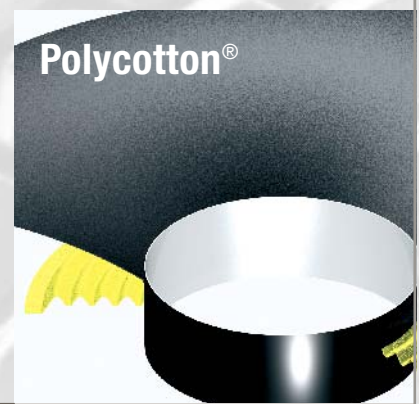
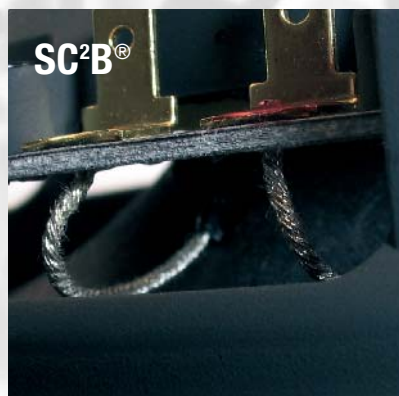
Surround and integrated gasket are made of rubber, latex and silicone. The longest excursion which the double wave insures makes mobile voice coil movement more linear, eliminating dangerous mechanical distortions.

**4\_ Polycotton®**

Acrylic and cotton spider with calibrated height. It mechanically controls musical signal reproduction without affecting it. The rationality, functionality and efficiency of materials insure long-term reliability and performances.

**5\_ Silver Copper Cotton Braid®**

Silver copper and cotton braid. The very thick lead wire provides utmost mechanical reliability and avoids vibrations even at the longest excursions, supporting the cone movement perfect alignment.

**1** Refinement and Solution**2** Movement and Extension**3** Linearity and Excursion**4** Rationality and Functionality**5** Elasticity and Sturdiness



## 6\_ Symmetrical Field Engine®

The motor assembly special shape creates perfect field symmetry which provides startling energy. Its small dimensions conceal the system total capacity, which can keep mobile voice coil movement linear even at the longest excursions.

### Rare Earth Neodymium®

High thermal threshold neodymium. The powerful, exclusive magnet permeability is 100 times higher than the one of ordinary, equally big ferrites. SPACE double magnet is 20 times more efficient than a traditional woofer and it can provide extraordinary energy for superb performances.

### Copper Ring Pole®

Pure copper covered central pole. The short circuit ring inside the voice coil insures linear impedance. The anti-inductive effect allows woofer to reach higher frequencies, providing flat, excellent mid-high frequencies response.

## 7\_ Polymer Basket®

Anti-vibration composite polymers basket. Polycarbonate and fiber-glass make it very light, yet stiff and decrease resonance increasing damping factor.

## 8\_ Back Face Low Reflection®

Low incidence basket arms. The distance between them creates wide ports for air flux. This original system provides membrane with minimum radiation impedance and eliminates noise and distortion.

SFE®  
REN®  
CRP®



6 Innovation and Energy

PB®



7 Lightness and Stiffness

BFLR®



8 Aerodynamics and Progress

**9\_ Radial Cooling Ducts®**

Radial holes system. The forced ventilation circuit keeps voice coil at constant temperature, dissipating heat, and improves thermal capacity and power handling.

**10\_ Back Aluminium Heat Sink®**

Anodised aluminium heat sink. The magnet is fixed onto a support which is turned through high precision process and which transfers heat from the magnet bottom pole outwards. This system favours the flux of the heat generated by the watts dissipated during musical reproduction, increasing maximum real power.

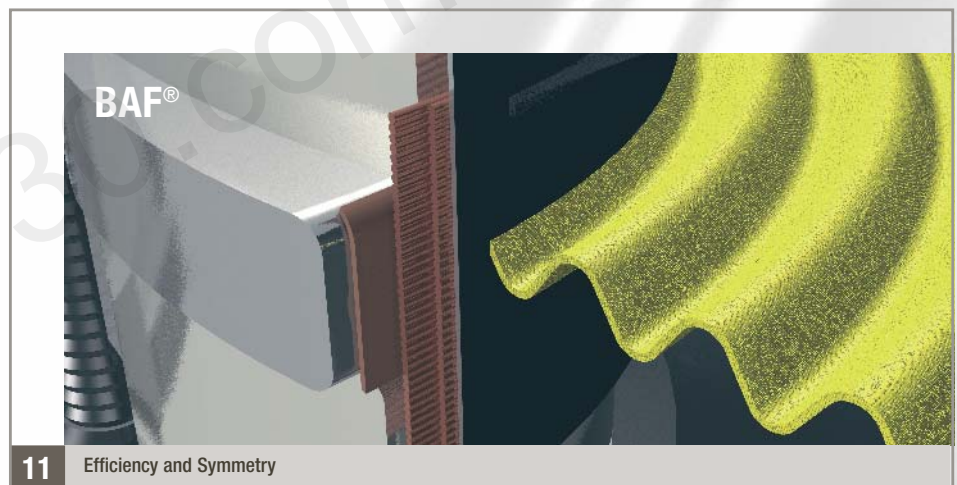
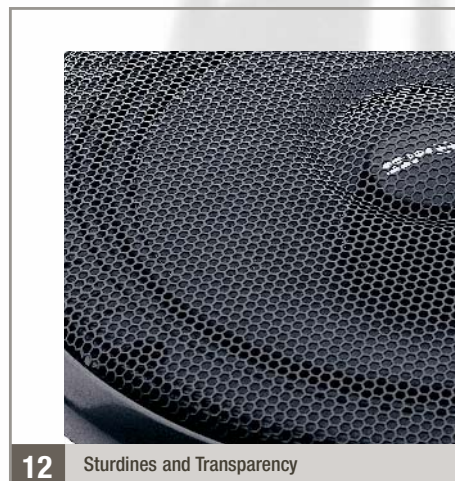
**11\_ Black Aluminium Former®**

50 mm mobile voice coil, wound on two layers inside a Black Aluminium Former® with outstanding thermal and mechanical capacity. Windings precision and glues quality insure power handling, control and energy.

**12\_ Acoustically neutral grilles.** They are designed in order to offer the best mechanical protection without sound coloration. Their central wrinkle makes them sturdier, without affecting the woofer mid frequencies reproduction.

**13\_ Black Aluminium Former®**

CCAW copper covered aluminium wire, 36 mm mobile voice coil. Its three layers are wound inside a Black Aluminium Former®. The compact, very light winding provides maximum mechanical capacity and excellent efficiency.

**9** Transfer and Geometry**10** Thermodynamics and Precision**11** Efficiency and Symmetry**12** Sturdiness and Transparency**13** Technology and Lightness

**14 CCAW Duraluminium Voicecoil®**

CCAW copper covered aluminium wire mobile voice coil, wound on two layers on a Duraluminium former. The use of special materials makes this mobile voice coil particularly light and stiff, insuring unparalleled SPL values and high frequency response.

**15 Tetolon Fiber®**

28 mm semispheric dome. Natural fiber is combined with a closed fiber with double waterproof coating and makes tweeter sound crisp yet soft. Outstanding frequency response, off-axis response and linearity are insured in whatever conditions.

**16 Symmetrical Field Engine®**

The motor assembly special shape creates perfect field symmetry which provides startling energy. Its small dimensions conceal the system total capacity, which can keep mobile voice coil movement linear even at the longest excursions.

**Rare Earth Neodymium®**

High thermal threshold neodymium. The powerful, exclusive magnet permeability is 100 times higher than the one of ordinary, equally big ferrites. SPACE 1 double magnet is 20 times more efficient than a traditional tweeter and it can provide extraordinary energy for superb performances.

**Copper Ring Pole®**

Pure copper short circuiting ring. The upper pole outside the voice coil generates an anti-inductive effect. By flattening impedance, it allows the tweeter to reach higher frequencies, providing even, excellent trebles response.

**17 High Transparency Protection Grille®**

Acoustically neutral protection grille. Designed as an integral part of the speaker, it both protects it and contributes to the achievement of the best acoustic results and performances.



**18 Back Sealed Box®**

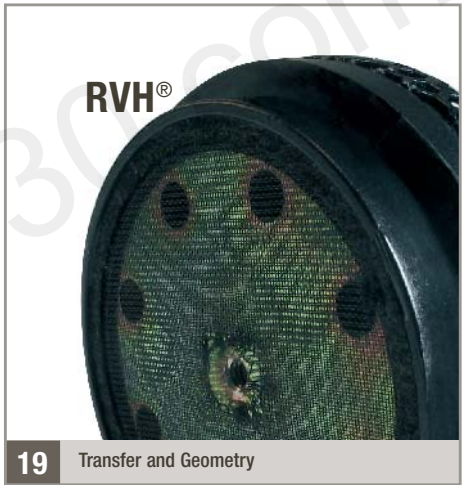
Acoustic chambers with different loading. The tweeter can be used in different configurations since it is possible to choose the best Q for one's system by changing the rear acoustic chamber. The chambers simulate sealed box configuration; they are filled with natural, non-woven absorbing material for the component best damping. The small chamber increases Q factor and makes the tweeter slope sharper; the big one makes slope smoother at lower frequencies.



18 Versatility and Performance

**19 Radial Venting Holes®**

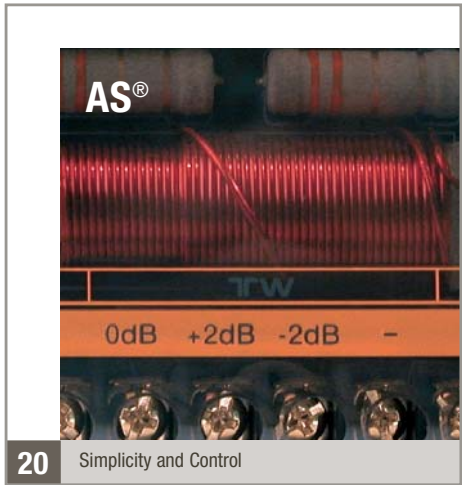
Cooling and decompression radial ducts. They insure efficient heat dissipation and optimise mobile voice coil damping and resonance. The holes special geometry and the rear resonance chamber provide natural, linear sound by eliminating all noise.



19 Transfer and Geometry

**20 Attenuation System®**

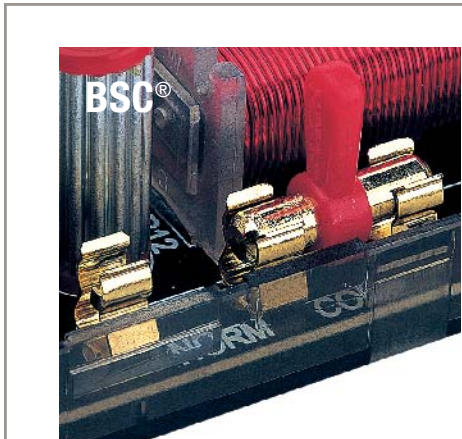
Filters have tweeter sensitivity control. Thanks to the 2dB-step attenuators, the speaker can be adjusted at best in any cars and according to any needs.



20 Simplicity and Control

**21 Best Sound Control®**

Listening point optimisation system. The car compartment has fixed listening positions and the components forced installation sometimes places them at non favourable angulations. Thanks to BSC®, it is possible to adjust the speakers emission in order to make up for woofer and tweeter natural loss at high frequencies. Thus, the driver or the passenger will be able to fully enjoy the components best acoustic response simply by setting the right adjustment on the filter.



21 Position and Perfection

BEST SOUND CONTROL		
Listening position	X-over Left both switch	X-over Right both switch
Driver	comp	norm
Passenger	norm	comp
All	norm	norm

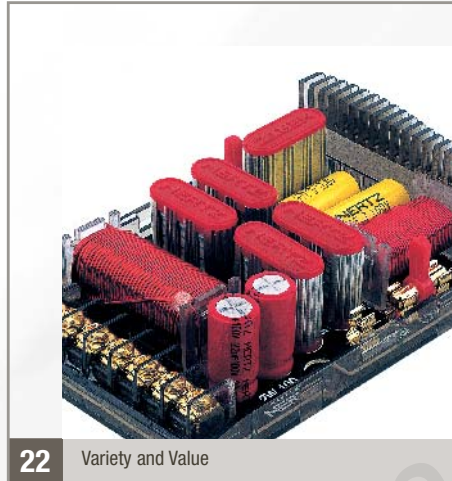
Switch Table      Factory Setting: All

## 22. Components

Resistors: metaloxide, high power and precision, non inductive;  
 Inductors: 1 mm copper coil, low resistance, high saturation flux;  
 Capacitors: polyester film, 100 Vdc, very low DF;  
 Layout: 1.7 mm shockproof FR2 with very thick pads.

### Crossover Frequency

Cut-off frequencies have been chosen for the best acoustic crossover point. The study of the reverberating field in cars, which interacts with the system response, recommended the use of open electrical cuts with optimised damping. Attenuation slopes are 12dB/Oct.



22 Variety and Value

## 23. Triple Resistor Heat Sink®

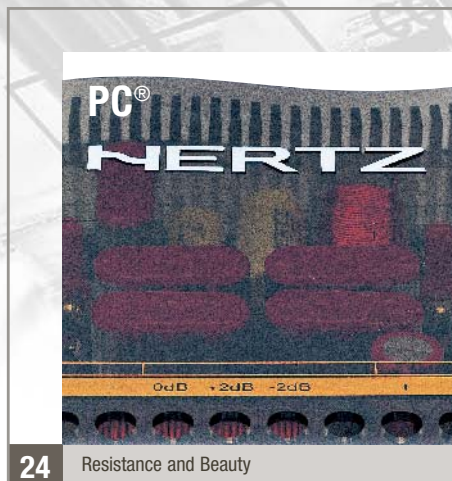
Aluminium heat sink for resistors. Metaloxide resistors are assembled on a special heat sink which improves their performances and power handling. Heat dissipation and the consequent stabilisation of the resistors working temperature avoid dangerous value and temperature variations, optimising acoustic results.

## 24. Polycarbonate Case®

The filter housing, with hidden fixing system, is made of translucent polycarbonate, polymeric material with the best thermal resistance.



23 Uniqueness and Power



24 Resistance and Beauty