

# COAX energy

**ECX 87** **60 Watt**



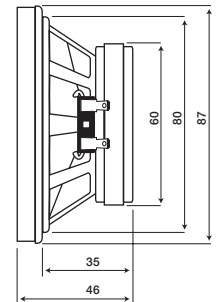
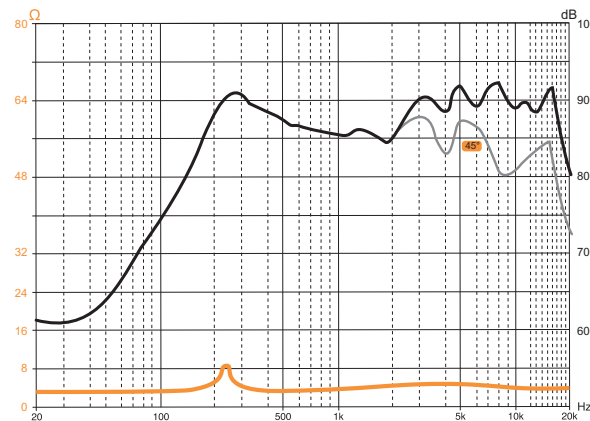
## Technical Specifications

|                                |                    |   |
|--------------------------------|--------------------|---|
| <b>Component:</b>              | 2W Coaxial         |   |
| <b>Size</b>                    | mm                 | Woofer 87 (3 <sup>1/2</sup> )<br>Tweeter 15 (19/32 <sup>1/2</sup> ) |
| <b>Power Handling (Watt)</b>   | peak               | 60  |
|                                | continuous program | 30  |
| <b>Impedance</b>               | Ohm                | 4   |
| <b>Frequency response</b>      | Hz                 | 120 - 21K   |
| <b>Sensitivity</b>             | dB/SPL             | 87  |
| <b>Outer diameter</b>          | mm                 | 87  |
| <b>Mounting hole diameter</b>  | mm                 | 80  |
| <b>Magnet size</b>             | mm                 | 60  |
| <b>Total depth</b>             | mm                 | 46  |
| <b>Mounting depth</b>          | mm                 | 35  |
| <b>Weight of one component</b> | Kg                 | 0,317   |
| <b>Voice coil diameter</b>     | mm                 | 25  |

- 1 Low carbon content plates for maximum magnetic permeability and high heat dissipation.
- 2 Large motor assembly provides excellent voice coil control.
- 3 Pure copper voice coil wound on TiI former, for very good thermal and mechanical capacity.
- 4 Water-repellent treated paper cone.
- 5 DIN size basket coated with scratch-proof, corrosive-resistant material.
- 6 Tin-plated, high current terminals.
- 7 Silver-plated lead wires for maximum reliability and conductivity.
- 8 High density rubber surround, glued with heat-resistant adhesive.
- 9 Epoxy glue for basket and motor system provides perfect coupling.
- 10 Curve memory Nomex spider for consistent, reliable performance.
- 11 High energy Neodymium magnet Dome-Cone tweeter.

## Electro-Acoustic Parameters

|                       |          |      |
|-----------------------|----------|------|
| <b>D</b>              | mm       | 70   |
| <b>Xmax</b>           | mm       | 2    |
| <b>Re</b>             | Ohm      | 3,0  |
| <b>Fs</b>             | Hz       | 190  |
| <b>Le</b>             | mH@1kHz  | 0,42 |
| <b>Le</b>             | mH@10kHz | 0,06 |
| <b>Vas</b>            | lit      | 0,60 |
| <b>Mms</b>            | gr       | 2,3  |
| <b>Cms</b>            | mm/N     | 0,30 |
| <b>BL</b>             | T-m      | 2,50 |
| <b>Qts</b>            |          | 1,00 |
| <b>Qes</b>            |          | 1,20 |
| <b>Qms</b>            |          | 5,30 |
| <b>Spl (1m/2,83V)</b> | dB       | 87   |



## COAX energy

### ECX 100 80 Watt



#### Technical Specifications

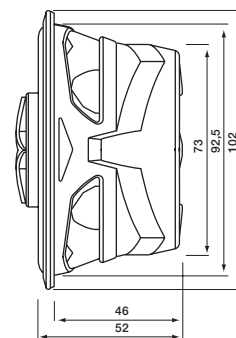
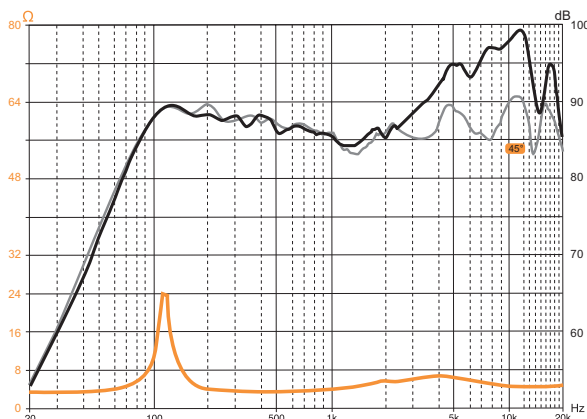
|                                |                               |                                      |
|--------------------------------|-------------------------------|--------------------------------------|
| <b>Component:</b>              | 2W Coaxial                    |                                      |
| <b>Size</b>                    | mm                            | Woofer 100 (4")<br>Tweeter 20 (3/4") |
| <b>Power Handling (Watt)</b>   | peak<br>continuous<br>program | 80<br>40                             |
| <b>Impedance</b>               | Ohm                           | 4                                    |
| <b>Frequency response</b>      | Hz                            | 70 - 23K                             |
| <b>Sensitivity</b>             | dB/SPL                        | 88                                   |
| <b>Outer diameter</b>          | mm                            | 102                                  |
| <b>Mounting hole diameter</b>  | mm                            | 95                                   |
| <b>Magnet size</b>             | mm                            | 75                                   |
| <b>Total depth</b>             | mm                            | 60                                   |
| <b>Mounting depth</b>          | mm                            | 46                                   |
| <b>Weight of one component</b> | Kg                            | 0,573                                |
| <b>Voice coil diameter</b>     | mm                            | 25                                   |

- 1 Low carbon content plates for maximum magnetic permeability and high heat dissipation.
- 2 Large motor assembly provides excellent voice coil control.
- 3 Pure copper voice coil wound on aluminium former, for very good thermal and mechanical capacity.
- 4 Water-repellent treated paper cone.
- 5 DIN size basket coated with scratch-proof, corrosive-resistant material.
- 6 Tin-plated, high current terminals.
- 7 Silver-plated lead wires for maximum reliability and conductivity.
- 8 High density rubber surround, glued with heat-resistant adhesive.
- 9 Epoxy glue for basket and motor system provides perfect coupling.
- 10 Curve memory Nomex spider for consistent, reliable performance.
- 11 Tetolon dome tweeter with high energy REN Neodymium magnet; the highest possible efficiency in a coaxial speaker with excellent off-axis dispersion and high frequency extension.
- 12 RHFC™, Rotary High Frequency Contour; adjustable for perfect off-axis dispersion and frequency response. Incredible high frequency performance from any listening position.



#### Electro-Acoustic Parameters

|                       |          |      |
|-----------------------|----------|------|
| <b>D</b>              | mm       | 84   |
| <b>Xmax</b>           | mm       | 2    |
| <b>Re</b>             | Ohm      | 3,0  |
| <b>Fs</b>             | Hz       | 121  |
| <b>Le</b>             | mH@1kHz  | 0,42 |
| <b>Le</b>             | mH@10kHz | 0,06 |
| <b>Vas</b>            | lit      | 1,20 |
| <b>Mms</b>            | gr       | 6,6  |
| <b>Cms</b>            | mm/N     | 0,26 |
| <b>BL</b>             | T-m      | 3,8  |
| <b>Qts</b>            |          | 0,9  |
| <b>Qes</b>            |          | 0,95 |
| <b>Qms</b>            |          | 7,5  |
| <b>Spl (1m/2,83V)</b> | dB       | 88   |



# COAX energy

## ECX 130 **100 Watt**



### Technical Specifications

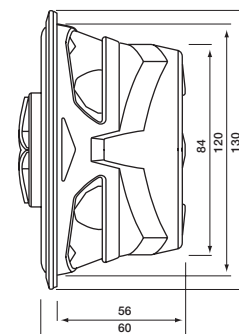
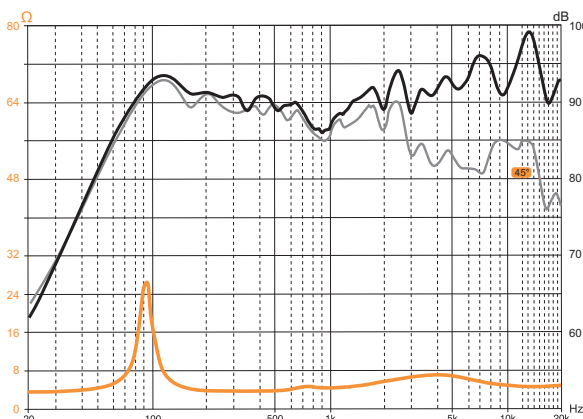
|                                |                    |   |
|--------------------------------|--------------------|---|
| <b>Component:</b>              | 2W Coaxial         |   |
| <b>Size</b>                    | mm                 | Woofer 130 (5 <sup>1/4</sup> )<br>Tweeter 20 (3/4") |
| <b>Power Handling (Watt)</b>   | peak               | 100   |
|                                | continuous program | 50  |
| <b>Impedance</b>               | Ohm                | 4   |
| <b>Frequency response</b>      | Hz                 | 65 - 23K  |
| <b>Sensitivity</b>             | dB/SPL             | 91  |
| <b>Outer diameter</b>          | mm                 | 130   |
| <b>Mounting hole diameter</b>  | mm                 | 120   |
| <b>Magnet size</b>             | mm                 | 80  |
| <b>Total depth</b>             | mm                 | 73  |
| <b>Mounting depth</b>          | mm                 | 56  |
| <b>Weight of one component</b> | Kg                 | 0,794   |
| <b>Voice coil diameter</b>     | mm                 | 25  |

- 1 Low carbon content plates for maximum magnetic permeability and high heat dissipation.
- 2 Large motor assembly provides excellent voice coil control.
- 3 Pure copper voice coil wound on aluminium former, for very good thermal and mechanical capacity.
- 4 Water-repellent treated paper cone.
- 5 DIN size basket coated with scratch-proof, corrosive-resistant material.
- 6 Tin-plated, high current terminals.
- 7 Silver-plated lead wires for maximum reliability and conductivity.
- 8 High density rubber surround, glued with heat-resistant adhesive.
- 9 Epoxy glue for basket and motor system provides perfect coupling.
- 10 Curve memory Nomex spider for consistent, reliable performance.
- 11 Tetolon dome tweeter with high energy REN Neodymium magnet; the highest possible efficiency in a coaxial speaker with excellent off-axis dispersion and high frequency extension.
- 12 RHFC™, Rotary High Frequency Contour; adjustable for perfect off-axis dispersion and frequency response. Incredible high frequency performance from any listening position.



### Electro-Acoustic Parameters

|                       |          |      |
|-----------------------|----------|------|
| <b>D</b>              | mm       | 110  |
| <b>Xmax</b>           | mm       | 3    |
| <b>Re</b>             | Ohm      | 2,9  |
| <b>Fs</b>             | Hz       | 94   |
| <b>Le</b>             | mH@1kHz  | 0,52 |
| <b>Le</b>             | mH@10kHz | 0,07 |
| <b>Vas</b>            | lit      | 4,60 |
| <b>Mms</b>            | gr       | 8    |
| <b>Cms</b>            | mm/N     | 0,36 |
| <b>BL</b>             | T-m      | 3,63 |
| <b>Qts</b>            |          | 0,88 |
| <b>Qes</b>            |          | 1,03 |
| <b>Qms</b>            |          | 6,22 |
| <b>Spl (1m/2,83V)</b> | dB       | 91   |



# COAX energy

## ECX 165 **140 Watt**



### Technical Specifications

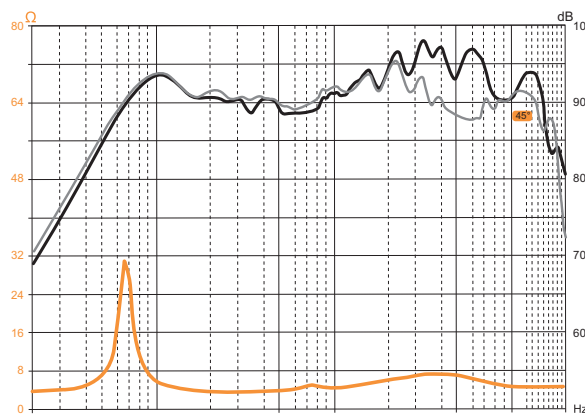
|                                |                               |  |
|--------------------------------|-------------------------------|--|
| <b>Component:</b>              | 2W Coaxial                    |  |
| <b>Size</b>                    | mm                            | Woofer 165 (6 <sup>11/2</sup> )<br>Tweeter 20 (3/4") |
| <b>Power Handling (Watt)</b>   | peak<br>continuous<br>program | 140<br>70  |
| <b>Impedance</b>               | Ohm                           | 4  |
| <b>Frequency response</b>      | Hz                            | 60 - 23K   |
| <b>Sensitivity</b>             | dB/SPL                        | 93   |
| <b>Outer diameter</b>          | mm                            | 165  |
| <b>Mounting hole diameter</b>  | mm                            | 145  |
| <b>Magnet size</b>             | mm                            | 85   |
| <b>Total depth</b>             | mm                            | 77   |
| <b>Mounting depth</b>          | mm                            | 66   |
| <b>Weight of one component</b> | Kg                            | 0,954  |
| <b>Voice coil diameter</b>     | mm                            | 25   |

- 1 Low carbon content plates for maximum magnetic permeability and high heat dissipation.
- 2 Large motor assembly provides excellent voice coil control.
- 3 Pure copper voice coil wound on aluminium former, for very good thermal and mechanical capacity.
- 4 Water-repellent treated paper cone.
- 5 DIN size basket coated with scratch-proof, corrosive-resistant material.
- 6 Tin-plated, high current terminals.
- 7 Silver-plated lead wires for maximum reliability and conductivity.
- 8 High density rubber surround, glued with heat-resistant adhesive.
- 9 Epoxy glue for basket and motor system provides perfect coupling.
- 10 Curve memory Nomex spider for consistent, reliable performance.
- 11 Tetolon dome tweeter with high energy REN Neodymium magnet; the highest possible efficiency in a coaxial speaker with excellent off-axis dispersion and high frequency extension.
- 12 RHFC™, Rotary High Frequency Contour; adjustable for perfect off-axis dispersion and frequency response. Incredible high frequency performance from any listening position.



### Electro-Acoustic Parameters

|                       |          |       |
|-----------------------|----------|-------|
| <b>D</b>              | mm       | 134   |
| <b>Xmax</b>           | mm       | 3     |
| <b>Re</b>             | Ohm      | 2,9   |
| <b>Fs</b>             | Hz       | 72    |
| <b>Le</b>             | mH@1kHz  | 0,5   |
| <b>Le</b>             | mH@10kHz | 0,07  |
| <b>Vas</b>            | lit      | 12,3  |
| <b>Mms</b>            | gr       | 11,2  |
| <b>Cms</b>            | mm/N     | 0,438 |
| <b>BL</b>             | T-m      | 4,42  |
| <b>Qts</b>            |          | 0,66  |
| <b>Qes</b>            |          | 0,75  |
| <b>Qms</b>            |          | 5,54  |
| <b>Spl (1m/2,83V)</b> | dB       | 93    |



# COAX energy

## ECX 570 **140 Watt**



### Technical Specifications

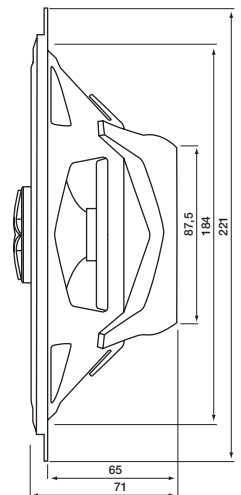
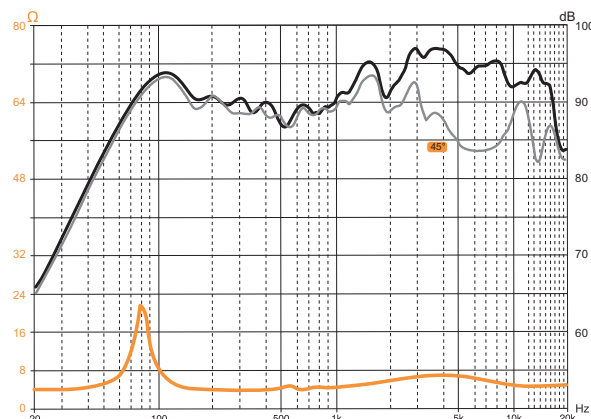
|                                |                               |                                   |
|--------------------------------|-------------------------------|-----------------------------------|
| <b>Component:</b>              | 2W Coaxial                    |                                   |
| <b>Size</b>                    | mm                            | Woofer 5"x7"<br>Tweeter 20 (3/4") |
| <b>Power Handling (Watt)</b>   | peak<br>continuous<br>program | 140<br>70                         |
| <b>Impedance</b>               | Ohm                           | 4                                 |
| <b>Frequency response</b>      | Hz                            | 60 - 23K                          |
| <b>Sensitivity</b>             | dB/SPL                        | 93                                |
| <b>Outer diameter</b>          | mm                            | 195                               |
| <b>Mounting hole diameter</b>  | mm                            | 184                               |
| <b>Magnet size</b>             | mm                            | 85                                |
| <b>Total depth</b>             | mm                            | 77                                |
| <b>Mounting depth</b>          | mm                            | 65                                |
| <b>Weight of one component</b> | Kg                            | 0,988                             |
| <b>Voice coil diameter</b>     | mm                            | 25                                |

- 1 Low carbon content plates for maximum magnetic permeability and high heat dissipation.
- 2 Large motor assembly provides excellent voice coil control.
- 3 Pure copper voice coil wound on aluminium former, for very good thermal and mechanical capacity.
- 4 Water-repellent treated paper cone.
- 5 DIN size basket coated with scratch-proof, corrosive-resistant material.
- 6 Tin-plated, high current terminals.
- 7 Silver-plated lead wires for maximum reliability and conductivity.
- 8 High density rubber surround, glued with heat-resistant adhesive.
- 9 Epoxy glue for basket and motor system provides perfect coupling.
- 10 Curve memory Nomex spider for consistent, reliable performance.
- 11 Tetolon Dome tweeter with high energy REN Neodymium magnet; the highest possible efficiency in a coaxial speaker with excellent off-axis dispersion and high frequency extension.
- 12 RHFC™, Rotary High Frequency Contour; adjustable for perfect off-axis dispersion and frequency response. Incredible high frequency performance from any listening position.



### Electro-Acoustic Parameters

|                       |          |      |
|-----------------------|----------|------|
| <b>D</b>              | mm       | 139  |
| <b>Xmax</b>           | mm       | 3    |
| <b>Re</b>             | Ohm      | 3    |
| <b>Fs</b>             | Hz       | 83   |
| <b>Le</b>             | mH@1kHz  | 0,47 |
| <b>Le</b>             | mH@10kHz | 0,06 |
| <b>Vas</b>            | lit      | 9,3  |
| <b>Mms</b>            | gr       | 12,6 |
| <b>Cms</b>            | mm/N     | 0,29 |
| <b>BL</b>             | T-m      | 4,43 |
| <b>Qts</b>            |          | 0,79 |
| <b>Qes</b>            |          | 0,99 |
| <b>Qms</b>            |          | 4    |
| <b>Spl (1m/2,83V)</b> | dB       | 93   |



# COAX energy

## ECX 690 200 Watt



### Technical Specifications

|                                |                               |   |
|--------------------------------|-------------------------------|---|
| <b>Component:</b>              | 3W Coaxial                    |   |
| <b>Size</b>                    | mm                            | Woofer 6"x9"<br>Tweeter 40 (1.5")<br>Supertweeter 15 (19/32") |
| <b>Power Handling (Watt)</b>   | peak<br>continuous<br>program | 200<br>100  |
| <b>Impedance</b>               | Ohm                           | 4   |
| <b>Frequency response</b>      | Hz                            | 40 - 23K  |
| <b>Sensitivity</b>             | dB/SPL                        | 95  |
| <b>Outer diameter</b>          | mm                            | 237   |
| <b>Mounting hole diameter</b>  | mm                            | 225   |
| <b>Magnet size</b>             | mm                            | 100   |
| <b>Total depth</b>             | mm                            | 98  |
| <b>Mounting depth</b>          | mm                            | 78  |
| <b>Weight of one component</b> | Kg                            | 1,420   |
| <b>Voice coil diameter</b>     | mm                            | 25  |

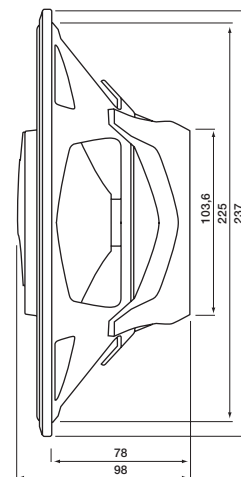
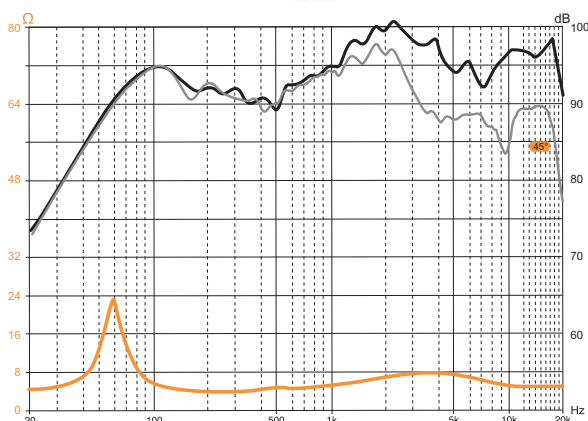
- 1 Low carbon content plates for maximum magnetic permeability and high heat dissipation.
- 2 Very big magnet for excellent voice coil control.
- 3 Pure copper voice coil wound on Tii former, for very good thermal and mechanical capacity.
- 4 Water-repellent treated paper cone.
- 5 DIN size basket coated with scratch-proof, corrosive-resistant material.
- 6 Tin-plated, high current terminals.
- 7 Silver-plated lead wires for maximum reliability and conductivity.
- 8 High density rubber surround, glued with heat-resistant adhesive.
- 9 Epoxy glue for basket and motor system provides perfect coupling.
- 10 Curve memory Nomex spider for consistent, reliable performance.
- 11 Dome-Cone tweeter with high energy Neodymium magnet combined with a Mylar supertweeter. The best possible efficiency and high frequency extension.

\*Grille included



### Electro-Acoustic Parameters

|                       |          |       |
|-----------------------|----------|-------|
| <b>D</b>              | mm       | 171   |
| <b>Xmax</b>           | mm       | 3,5   |
| <b>Re</b>             | Ohm      | 3,2   |
| <b>Fs</b>             | Hz       | 67    |
| <b>Le</b>             | mH@1kHz  | 0,62  |
| <b>Le</b>             | mH@10kHz | 0,07  |
| <b>Vas</b>            | lit      | 25,2  |
| <b>Mms</b>            | gr       | 16,79 |
| <b>Cms</b>            | mm/N     | 0,338 |
| <b>BL</b>             | T-m      | 5,4   |
| <b>Qts</b>            |          | 0,62  |
| <b>Qes</b>            |          | 0,77  |
| <b>Qms</b>            |          | 3,23  |
| <b>Spl (1m/2,83V)</b> | dB       | 95    |



## energy

### New ENERGY: Raw power, refined style

ENERGY loudspeakers are the result of the HERTZ team's long experience and continuous research into automobile acoustics, as well as the deep knowledge of installation procedures. Their advanced engineering has been successfully combined with refined cosmetics to match with their high efficiency, stunning dynamics and musical accuracy. The 18 different components are the perfect way to ensure effortless reproduction in the most demanding situations. Add a powerful amplifier; the excellent timbre and high power handling make ENERGY the ideal choice for every system.

### COMP

**ENERGY** woofers ensure excellent acoustic quality, thanks to a powerful and symmetrical motor structure and to the pressed paper "V" cone. The DIN size basket and the compact size make it easy to install in almost every factory OEM location. With the EV 165L, the long throw voice coil design and water repellent non-pressed paper cone provide deep, tight bass output.



**ULTRA flat**

**EM 100** midrange: with its small size and shallow depth it can be installed in locations that would have been deemed impossible until now. The perfect addition ensuring excellent acoustic quality in challenging locations.



**Compact SIZE**

**ET 20** is a revolutionary tweeter with Tetolon dome; its unique design was conceived to ensure state-of-the-art performance in the smallest space. The provided mounting hardware allows easy installation in the most challenging locations.



**CX 200** and **CX 300** ENERGY system crossovers feature an aggressive, cosmetically appealing housing which protects the efficient, refined network: easy installation, reference acoustical performance in the mobile environment and the utmost reliability.



### COAX

**ECX ENERGY COAX** feature the world renowned Tetolon dome tweeter with built-in crossover. Off-axis response can be controlled with the proprietary RHFC™ technology. ECX 87 has an excellent dome-cone tweeter with built-in crossover. In addition to this, ECX 690 has a Mylar supertweeter to ensure the best possible efficiency and high frequency extension. No other coaxial components can ensure the outstanding sound linearity, off-axis response and timbre quality of ENERGY loudspeakers.



### SUB

**ENERGY ES** subwoofers were designed to work best when used in small enclosures. However, their electro-acoustic parameters are optimised for use in many different enclosure types; both in terms of typology (sealed box, reflex, bandpass, etc.) and in size, ensuring extraordinary versatility and performance. The use of a long excursion mobile voice coil and a high flux density double magnet have created subwoofers that can stand very high power with outstanding musicality and bursting dynamics. The special finish and butyl rubber rings offer protection along with an aggressive look.



Refined style