

cardiophon 2.0
duplex[®] 2.0



Perfect auscultation through research
and **development.**

STETHOSCOPES

Riester Stethoscopes 2.0 – simply better hearing!

60 years of experience in developing and manufacturing of stethoscopes, paired with the innovation power and the uncompromisingly high standard of quality of a globally successful company allowed **Riester** to set a new standard for stethoscopes. The completely new constructed **cardiophon 2.0** and **duplex® 2.0** assign nothing less than a quantum leap in the quality of acoustics.

Experience in manufacturing of stethoscopes over decades and out of the box thinking went hand in hand while constructing **cardiophon 2.0** and **duplex® 2.0** completely new. So it is the result of innovative detail solutions, which in the end lead to an outstanding product.

Acoustic performance

The design of the novel chestpiece, which is signed in for utility patent, is the centrepiece of the **cardiophon 2.0** and **duplex® 2.0**. Sound pick-up and sound transmission have been thoroughly reworked and added to a new overall concept, which sustains any comparisons with regard to its acoustic performance.

Auscultation is significantly disturbed by interfering side noise. Therefore during the construction phase of the **cardiophon 2.0** and the **duplex® 2.0** special attention has been paid to the design of the binaural and the ear-tips. The contact pressure of the binaural can be adjusted individually; the ear-tips are pivotable and made of extra-soft material. Altogether the ear canal is perfectly sealed against external side noise. In addition, disturbing noise due to the friction between the ear-tips and the ear will be avoided, even if the stethoscope is moving.

Quality

Riester stethoscopes are manufactured to an uncompromisingly high quality standard. The production of the binaural for example is automated. This guarantees a perfect fit of the binaural at the ear. The chest-pieces are manufactured using latest CNC-technology to minimize any tolerances – a precondition which only then allowed to develop the novel sound pick-up system of **cardiophon 2.0** and **duplex® 2.0**. The continuously high level of quality is guaranteed by multiple quality checks within the scope of our quality management according to ISO 9001. Quality made in Germany

Wear comfort

Special importance has been attached to the wear comfort of the stethoscope as it is carried by its user all day long. One important factor is the low weight of **cardiophon 2.0** and **duplex® 2.0**, which has been achieved by special manufacturing techniques and selected materials. Furthermore an unparalleled wear comfort is guaranteed by the perfect fit of the binaural with adjustable contact pressure as well as pivotable ear-tips.





cardiophon 2.0

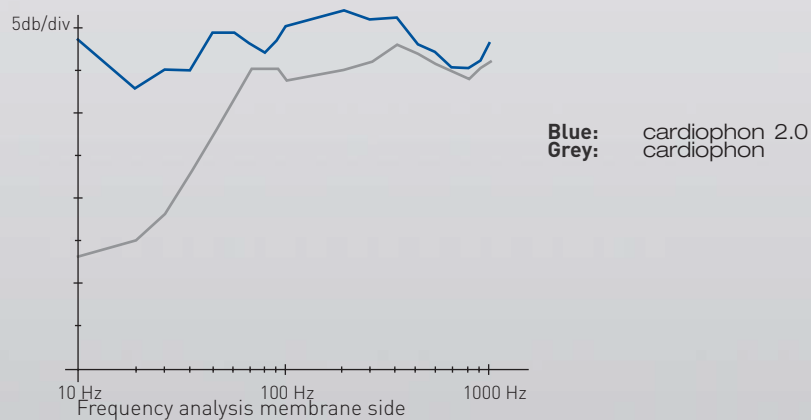
Specially developed for cardiology the new **cardiophon 2.0** is **Riester**'s masterpiece. Besides the completely new constructed chest-piece, sound transmission and binaural, the **cardiophon 2.0** features a series of innovative detail solutions, which come together as a convincing overall concept. Especially in the frequency range between 200 – 500 Hz, which is particularly important for the auscultation of heart sounds the new **cardiophon 2.0** has a by far improved acoustic compared to the previous model and sets a new standard for cardiology stethoscopes. The **cardiophon 2.0** is suitable for the precise auscultation of adults and children.

- Innovative acoustic system with extraordinary auscultation for all frequency ranges
- High-precision double chest-piece made of stainless steel.
- Bilateral special membrane for precise acoustics, Ø 44 mm and 32 mm, with novel non-chill rims for improved adaptation on the skin.
- Anatomically shaped binaural with internal multiple spring for adjusting the contact pressure.
- Extra-soft, replaceable and pivotable ear-tips for perfect sealing at the ear canal and enhanced wear comfort.
- Y-tube with separate sound-conducting pathways for the left and right ear with particularly good audio-transmission.
- Total length: 71 cm
- Weight: 204 g
- Latex-free.

The **cardiophon 2.0** is supplied with two pairs of replacement ear-tips, a replacement membrane each and a name plate.

Order information cardiophon 2.0

- No. 4240-01 ■ black
- No. 4240-02 □ white
- No. 4240-03 ■ blue



cardiophon 2.0

PRODUCT CHARACTERISTICS



duplex® 2.0

duplex®2.0 Stethoscopes from **Riester** are distinguished by outstanding acoustic performance. They have been completely new constructed to meet the challenges of daily diagnostic practice. The tube stethoscopes are available the special designs **duplex®2.0**, **duplex® 2.0 baby** and **duplex® 2.0 neonatal** for auscultation of adults, children/babies and new-borns.

- Precision double chest-piece with innovative membrane support.
- Anatomically shaped binaural with internal multiple spring for adjusting the contact pressure.
- Extra-soft, replaceable and pivotable ear-tips for perfect sealing at the ear canal and enhanced wear comfort.

The new **duplex®2.0** with numerous innovative detail solutions, offers acoustics in a class of its own for perfect auscultation of adults and children. The **duplex®2.0** is available with stainless steel chest-piece as well as in an ultra-light weight aluminium version.

- Innovative acoustic system with extraordinary auscultation for all frequency ranges
- Precision double chest-piece made of stainless steel or aluminium
- Special membrane for precise acoustics, Ø 44 mm, with novel non-chill rims for improved adaptation on the skin
- Total length: 74 cm
- Weight: 151 g (stainless steel), 97 g (aluminium)
- Latex-free.

The **duplex®2.0** is supplied with one pair of replacement ear-tips, a replacement membrane and a name plate.

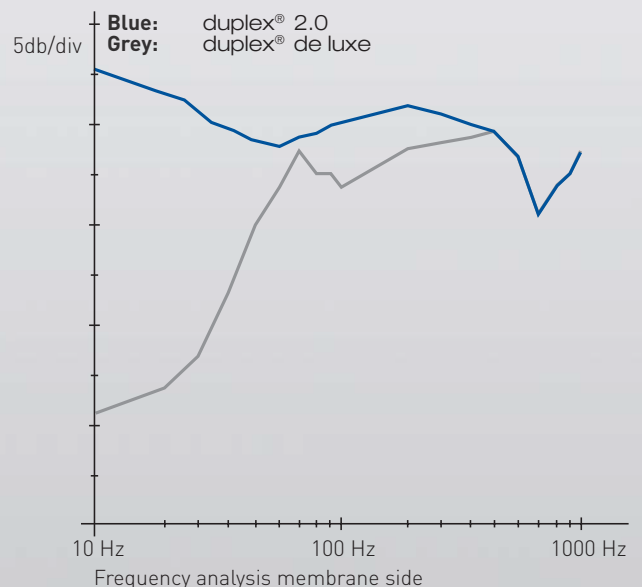
Order information duplex®2.0

Stainless steel

- No. 4210-01 ■ black
- No. 4210-02 □ white
- No. 4210-03 ■ blue
- No. 4210-04 ■ red
- No. 4210-05 ■ green

Aluminium

- No. 4200-01 ■ black
- No. 4200-02 □ white
- No. 4200-03 ■ blue
- No. 4200-04 ■ red
- No. 4200-05 ■ green
- No. 4201-01 ■ black edition



duplex® 2.0

PRODUCT CHARACTERISTICS



duplex® 2.0 baby

The new duplex® 2.0 baby has been developed specially for babies and children. The precision finishing of the double chest-piece guarantees high acoustic performance.

- Precision double chest-piece made of stainless steel.
- Special membrane for precise acoustics, Ø 32 mm, with novel non-chill rims for improved adaptation on the skin.
- Bell: Ø 23,5 mm
- Total length: 69 cm
- Weight: 124 g
- Latex-free

The 2.0 baby is supplied with one pair of replacement ear-tips, a replacement membrane and a name plate.



duplex® 2.0 neonatal

Order information duplex® 2.0 baby

No. 4220-02 white

No. 4220-04 red

No. 4220-05 green

The double chest-piece with extra-fine finishing of the new duplex® 2.0 neonatal permits perfect auscultation of new-borns and babies.

- Extra-fine precision double chest-piece made of stainless steel.
- Special membrane for precise acoustics, Ø 24 mm, with novel non-chill rims for improved adaptation on the skin.
- Bell: Ø 17,5mm
- Total length: 69 cm
- Weight: 105 g
- Latex-free.

The duplex® 2.0 neonatal is supplied with one pair of replacement ear-tips, a replacement membrane and a name plate.

Order information duplex® 2.0 neonatal

No. 4230-02 white

No. 4230-04 red

No. 4230-05 green

duplex® 2.0

PRODUCT CHARACTERISTICS



duplex®

The duplex® stethoscopes from **Riester** combine first-class quality at an attractive price. They offer outstanding acoustic performance for the daily challenges in office practices and hospitals.

The acoustic performance has been considerably improved.

- Double-headed chest-piece available in two types: chromium-plated brass or specially lightweight aluminium, galvanized.
- Special membrane for perfect auscultation, Ø 48 mm, with particularly flat and soft non-chill rims for improved adaptation on the skin.
- Bell, Ø 36 mm.
- Overall length: 77 cm.
- duplex® is supplied with a pair of replacement ear-tips and a replacement membrane.

Order information duplex®:

Aluminium chest-piece

- No. 4001-01 ■ black
- No. 4001-02 ■ slate grey
- No. 4031-03 ■ blue
- No. 4035-04 ■ saffron
- No. 4033-05 ■ green

Chest-piece made of chromium-plated brass

- No. 4011-01 ■ black
- No. 4011-02 ■ slate grey
- No. 4011-03 ■ blue
- No. 4011-04 ■ saffron
- No. 4011-05 ■ green

duplex®

PRODUCT CHARACTERISTICS



duplex® baby is a high-grade quality product from the **Riester** company. The stethoscope with double chest-piece was especially developed for babies and children. Considerably improved acoustics.

- Particularly light precision chest-piece made of aluminium.
- Special membrane, Ø 36 mm, with particularly flat and soft non-chill rims for improved adaptation on the skin.
- Bell, Ø 28 mm.
- Overall length: 76.5 cm.
- **duplex® baby** is supplied with a pair of replacement ear-tips and a replacement membrane.

Order information duplex® baby:

No. 4041 ■ blue



duplex® neonatal is a quality stethoscope with precision finished double chest-piece for new-born children and infants. With considerably improved acoustics.

- Particularly small precision chest-piece made of aluminium especially for new-born children and infants.
- Special membrane, Ø 28 mm, with particularly flat and soft non-chill rims for improved adaptation on the skin.
- Bell, Ø 22 mm.
- Overall length: 76 cm.
- **duplex® neonatal** is supplied with a pair of replacement ear-tips and a replacement membrane.

Order information duplex® neonatal:

No. 4051 ■ blue

The **duplex® Teaching Stethoscope** with double chest-piece and two binaural has been developed especially for teaching purposes. It is excellently suited for auscultation by two individuals. Considerably improved acoustic performance.

- Double-headed chest-piece made of stainless steel.
- Matt chromium plated binaural with integrated spring.
- Special membrane, Ø 48 mm, with particularly flat and soft non-chill rims for improved adaptation on the skin.
- Bell, Ø 36 mm.
- Overall length: 115 cm.
- **duplex® Teaching Stethoscope** is supplied with two pairs of replacement ear-tips and a replacement membrane.

Order information duplex® Teaching Stethoscope:

No. 4002-02 ■ slate grey



duplex®

PRODUCT CHARACTERISTICS



tristar®

The high quality stethoscope **tristar®** with three different sized double chest-pieces for adults, children/babies and new-born children is outstandingly suitable for perfect auscultation in all frequency ranges. Considerably improved acoustic performance in all areas of application.

- Double chest-pieces for **duplex® 2.0**, **duplex® baby** and **duplex® neonatal** made of aluminium with practical rapid-exchange connector.
- Special membranes, Ø 48 mm, 36 mm, 28 mm, for first-class acoustics.
- Particularly flat and soft non-chill rims for improved adaptation on the skin.
- Bells Ø 36 mm, 28 mm, 24 mm.
- Matt chromium-plated binaural with integrated reinforced double-spring.
- Optimal sealing of the external auditory canal with soft, replaceable ear-tips with metal screw thread.
- Particularly strong Y-tube made of PVC for optimal acoustics to shield against undesired stray sounds.
- Overall length: 79 cm, 78.5 cm, 78 cm.
- Latex-free.
- **tristar®** is supplied with two pairs of replacement ear-tips, a replacement membrane each and a name plate.

Order information tristar®:

No. 4091

■ slate grey

No. 4093

■ blue

anestophon®

The **anestophon®** sets high standards! The innovative stethoscope especially for nurses and nursing personnel is fitted with a completely new developed aluminium chest-piece – for particular comfort when taking blood pressure measurements. The acoustic performance has been enormously improved in the relevant frequency range. This stethoscope provides extra-ordinary high standards of quality at an attractive price.

- Ergonomic handling thanks to novel design: extra-ordinarily flat aluminium chest-piece without edges, easy to push under the cuff when measuring blood pressure.
- Special membrane, Ø 28 mm, with particularly flat and soft non-chill rims for improved adaptation on the skin.
- Matt chromium-plated binaural, which can be adjusted by turning.
- Soft, replaceable ear-tips with metal screw thread for comfortable and effective sealing of the external auditory canal.
- Reinforced Y-tube made of PVC to shield against disturbing stray sounds.
- Overall length: 77 cm.
- Latex-free.
- The **anestophon®** is supplied in a cardboard display box with a pair of replacement ear tips and a replacement membrane.

Order information anestophon®:

No. 4177-01

■ black

No. 4177-03

■ blue

No. 4177-02

■ slate grey

No. 4177-04

■ saffron

No. 4177-05

■ green

ri-rap®



The universal stethoscope **ri-rap®** with double chest-piece and double tube system convinces by its flexible range of applications. Very good acoustics in all frequency ranges.

- Strong double tube with separate sound-conducting pathways for the left and right ears guarantees extra-ordinary audio-conductivity.
- Alternatively with 40 cm or 80 cm tube length.
- Heavy chromium-plated double chest-piece with two membrane sides, Ø 45 mm and 32 mm.
- Special membranes with surface structure to adapt better to the skin.
- Both membrane sides can be simply and quickly refitted with the enclosed bells (Ø 33.5 mm, 27.3 mm, 20.3 mm) with the screw connections.
- Replacement parts box: three bells, each with a transparent membrane, two pairs of replacement ear-tips.

Order information ri-rap®:

Tube length 40 cm

- No. 4150-01 ■ black
- No. 4150-02 ■ slate grey
- No. 4150-03 ■ blue
- No. 4150-04 ■ saffron
- No. 4150-05 ■ green

Tube length 80 cm

- No. 4155-01 ■ black
- No. 4155-02 ■ slate grey
- No. 4155-03 ■ blue
- No. 4155-04 ■ saffron
- No. 4155-05 ■ green

pinard



The **pinard** special stethoscope is used to auscultate the heart sounds of the embryo in the womb. The shape of the bell provides the particularly good acoustics.

- Available in two models:
 - sturdy plastic or
 - particularly lightweight aluminium.
- Supplied in a cardboard box.

Order information pinard:

- No. 4190 Plastic
- No. 4191 Aluminium

ACCESSORIES



<p>Binaural with ear-tips and tube, latex-free</p>	<p>cardiophon 2.0 integrated spring, twin-channel tube</p> <p>No. 13220 black No. 13221 white No. 13222 blue</p>	<p>duplex® 2.0 Binaural chromium-plated, integrated spring, Y-tube</p> <p>No. 13223 black No. 13224 white No. 13225 blue No. 13226 red No. 113227 green No. 113228 black alu edition</p>	<p>duplex® 2.0 baby Binaural chromium-plated, integrated spring, Y-tube</p> <p>No. 13224 white No. 13226 red No. 13227 green</p>	<p>duplex® 2.0 neonatal Binaural chromium-plated, integrated spring, Y-tube</p> <p>No. 13224 white No. 13226 red No. 13227 green</p>
<p>Binaural with ear-tips, without tube</p>				
<p>Tubes, latex-free</p>				
<p>Double-headed chest-pieces</p>	<p>No. 13229 stainless steel</p>	<p>No. 13230 Aluminium No. 13231 stainless steel No. 13232 Aluminium black</p>	<p>No. 13233 stainless steel</p>	<p>No. 13234 stainless steel</p>
<p>Ear-tips pack of 10</p>	<p>No. 13235 soft, black</p>	<p>No. 13235 soft, black</p>	<p>No. 13235 soft, black</p>	<p>No. 13235 soft, black</p>
<p>Membranes, printed pack of 10</p>	<p>No. 13236 Ø 44 mm No. 13237 Ø 32 mm, bored up</p>	<p>No. 13236 Ø 44 mm</p>	<p>No. 13238 Ø 32 mm</p>	<p>No. 13239 Ø 24 mm</p>
<p>Soft non-chill rims</p>	<p>No. 13240 Ø 52 mm, Membrane side No. 13241 Ø 38 mm, Bell side</p>	<p>No. 13240 Ø 52 mm, Membrane side No. 13241 Ø 38 mm, Bell side</p>	<p>No. 11141 Ø 35,8 mm, Membrane side No. 11143 Ø 28 mm, Bell side</p>	<p>No. 11143 Ø 28 mm, Membrane side No. 11144 Ø 22 mm, Bell side</p>
<p>Name plate pack of 10</p>	<p>No. 11147</p>	<p>No. 11147</p>	<p>No. 11147</p>	<p>No. 11147</p>



<p>duplex® Binaural chromium-plated, external spring, Y-tube No. 11065-01 black No. 11065-02 slate grey No. 11060-03 blue No. 11062-04 saffron No. 11061-01 green</p>	<p>duplex® baby Binaural chromium-plated, external spring, Y-tube No. 11065-01 No. 11065-01 black No. 11065-02 slate grey No. 11060-03 blue No. 11062-04 saffron No. 11061-01 green</p>	<p>duplex® neonatal Binaural chromium-plated, external spring, Y-tube No. 11065-01 black No. 11065-02 slate grey No. 11060-03 blue No. 11062-04 saffron No. 11061-01 green</p>	<p>duplex® Lehrstethoskop</p>
<p>Binaural chromium-plated, external spring No. 11080</p>	<p>Binaural chromium-plated, external spring No. 11080</p>	<p>Binaural chromium-plated, external spring No. 11080</p>	
<p>Y-tube No. 11095-01 black No. 11094-02 slate grey No. 11096-03 blue No. 11098-04 saffron No. 11097-05 green</p>	<p>Y-tube No. 11095-01 black No. 11094-02 slate grey No. 11096-03 blue No. 11098-04 saffron No. 11097-05 green</p>	<p>Y-tube No. 11095-01 black No. 11094-02 slate grey No. 11096-03 blue No. 11098-04 saffron No. 11097-05 green</p>	
<p>No. 11008 Aluminium No. 11010 chromium-plated</p>	<p>No. 11015 Aluminium</p>	<p>No. 11018 Aluminium</p>	<p>No. 11009 stainless steel</p>
<p>No. 11139 soft, grey No. 11110 hard, white</p>	<p>No. 11139 soft, grey No. 11110 hard, white</p>	<p>No. 11139 soft, grey No. 11110 hard, white</p>	<p>No. 11139 soft, grey No. 11110 hard, white</p>
<p>No. 11042 Ø 45 mm</p>	<p>No. 11052 Ø 34 mm</p>	<p>No. 11051 Ø 26 mm</p>	<p>No. 11042 Ø 45 mm No. 11050 Ø 34 mm, bored up</p>
<p>No. 11140 Ø 48 mm, Membrane side No. 11141 Ø 35,8 mm, Bell side</p>	<p>No. 11141 Ø 35,8 mm, Membrane side No. 11143 Ø 28 mm, Bell side</p>	<p>No. 11143 Ø 28 mm, Membrane side No. 11144 Ø 22 mm, Bell side</p>	<p>No. 11140 Ø 48 mm, Membrane side No. 11141 Ø 35,8 mm, Bell side</p>
<p>No. 11147</p>	<p>No. 11147</p>	<p>No. 11147</p>	<p>No. 11147</p>

ACCESSORIES



Binaural with ear-tips and tube, latex-free	tristar® Binaural chromium-plated, integrated spring, Y-tube, with connector No. 13245 slate grey No. 13246 blue	anestophon® Binaural chromium-plated, external spring, Y-tube No. 11065-01 black No. 11065-02 slate grey No. 11060-03 blue No. 11062-04 saffron No. 11061-01 green	ri-rap® Binaural chromium-plated, external spring, double tube 40 cm No. 11070-01 black No. 11070-02 slate grey No. 11070-03 blue No. 11070-04 saffron No. 11070-05 green 80 cm No. 11071-01 black No. 11071-02 slate grey No. 11071-03 blue No. 11071-04 saffron No. 11071-05 green
Binaural with ear-tips, without tube		Binaural chromium-plated, external spring No. 11080	Binaural chromium-plated, external spring No. 11083
Tubes, latex-free		Y-tube No. 11095-01 black No. 11094-02 slate grey No. 11096-03 blue No. 11098-04 saffron No. 11097-05 green	2 tubes with clamp 40 cm No. 11090-01 black No. 11090-02 slate grey No. 11090-03 blue No. 11090-04 saffron No. 11090-05 green 80 cm No. 11091-01 black No. 11091-02 slate grey No. 11091-03 blue No. 11091-04 saffron No. 11091-05 green
Double-headed chest-pieces	with rapid-exchange connector No. 11035 Aluminium, large No. 11036 Aluminium, medium No. 11038 Aluminium, small	No. 11032 Aluminium, single-headed chest-piece	No. 11027 chromium-plated
Ear-tips pack of 10	No. 11139 soft, grey No. 11110 hard, white	No. 11139 soft, grey No. 11110 hard, white	No. 11107 hard, black No. 11106 soft, black No. 11108 soft, transparent
Membranes, printed pack of 10	large No. 11042 Ø 45 mm medium No. 11052 Ø 34 mm small No. 11051 Ø 26 mm	No. 11042 Ø 45 mm	No. 11049 Ø 40,5 mm, no printing No. 11048 Ø 27,5 mm, no printing
Soft non-chill rims	large No. 11140 Ø 48 mm, Membrane side No. 11141 Ø 35,8 mm, Bell side medium No. 11141 Ø 35,8 mm, Membrane side No. 11143 Ø 28 mm, Bell side small No. 11143 Ø 28 mm, Membrane side No. 11144 Ø 22 mm, Bell side	No. 11042 Ø 45 mm	
Replacement parts set, ri-rap®			3 bells, 2 membranes, 2 pairs of ear-tips No. 11120
Bell attachments, plastic black			No. 11122 large No. 11124 medium No. 11123 small
Name plate pack of 10	No. 11147	No. 11147	No. 11147



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