

vitatron



CRYSTALLINE
CRYSTALLINE
ACTFIX

Crystal clear sensing

Pacing leads



**CRYSTALLINE
ACTFIX**

Model ICQ 09B
Silicone inner /
polyurethane outer
insulation

Model ICF 09B
Silicone inner and
outer insulation

Crystal clear sensing

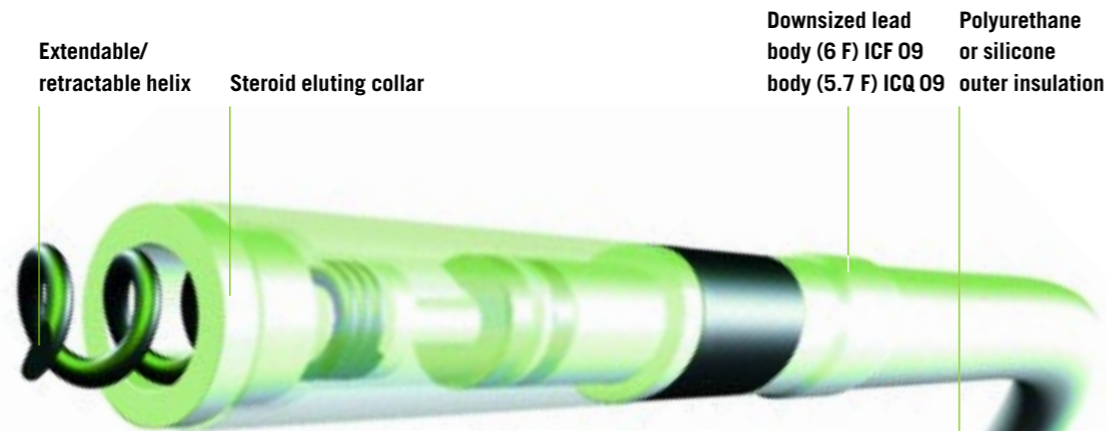
- A short tip to ring spacing reduces far-field sensing, allowing better therapy and diagnostics for your patients
- Allows a higher sensitivity setting for improved detection of atrial fibrillation

Ease of handling

- 6 F silicone, 5.7 F polyurethane lead body fit through a 7 F introducer, allows easier passage and positioning
- Improved flexibility to facilitate site-specific placement
- Extendable/retractable mechanism for improved handling

Optimal reliability

- Choice of polyurethane or silicone outer insulation
- TiN (Titanium Nitride) coating designed to reduce polarization (model ICQ 09)
- MED-4719 silicone inner insulation to improve crush-resistance for long-term reliability



**CRYSTALLINE
ACTFIX**

Product specifications

Model	ICQ 09B	ICF 09B
Polarity	Bipolar	Bipolar
Chamber	Atrium/Ventricle	Atrium/Ventricle
Fixation	Helical screw Extendable/retractable	Helical screw Extendable/retractable
Material		
Inner insulation	Silicone MED 4719	Silicone MED 4719
Outer insulation	Polyurethane (55D)	Silicone MED 4719
Conductor	MP 35 N nickel alloy	MP 35 N nickel alloy
Helix electrode	Titanium nitride coated platinum alloy	Platinized platinum alloy
Ring electrode	Titanium nitride coated platinum alloy	Platinized platinum alloy
Diameter		
Body	1.93 mm (5.7 F)	2.03 mm (6 F)
Ring	1.98 mm	1.98 mm
Helix	1.17 mm	1.17 mm
Introducer size		
One lead	7 F	7 F
With guide wire	9 F	9 F
Tip/Ring distance	10 mm	10 mm
Electrode surface area		
Helix	4.2 mm ²	4.2 mm ²
Helix length	1.8 mm	1.8 mm
Ring	22 mm ²	22 mm ²
Coil resistance		
Unipolar	30 Ω (52 cm) 33 Ω (58 cm)	30 Ω (52 cm) 33 Ω (58 cm)
Bipolar	55 Ω (52 cm) 61 Ω (58 cm)	55 Ω (52 cm) 61 Ω (58 cm)
Steroid	< 1.0 mg dexamethasone acetate	< 1.0 mg dexamethasone acetate
Standard lengths	45, 52, 58, 65, 85 cm	45, 52, 58, 65, 85 cm
Connector	IS-1 BI	IS-1 BI
Serial number prefix	LFM	VMR

active fixation

CRYSTALLINE

Model ICM 09
Silicone inner /
polyurethane outer
insulation

Model ICL 08
Silicone inner and
outer insulation

Crystal clear sensing

- A short tip to ring spacing reduces far-field sensing, allowing better therapy and diagnostics for your patients
- Allows a higher sensitivity setting for improved detection of atrial fibrillation
- TiN coating designed to reduce polarization and improve sensing (model ICM 09)

Optimal pacing

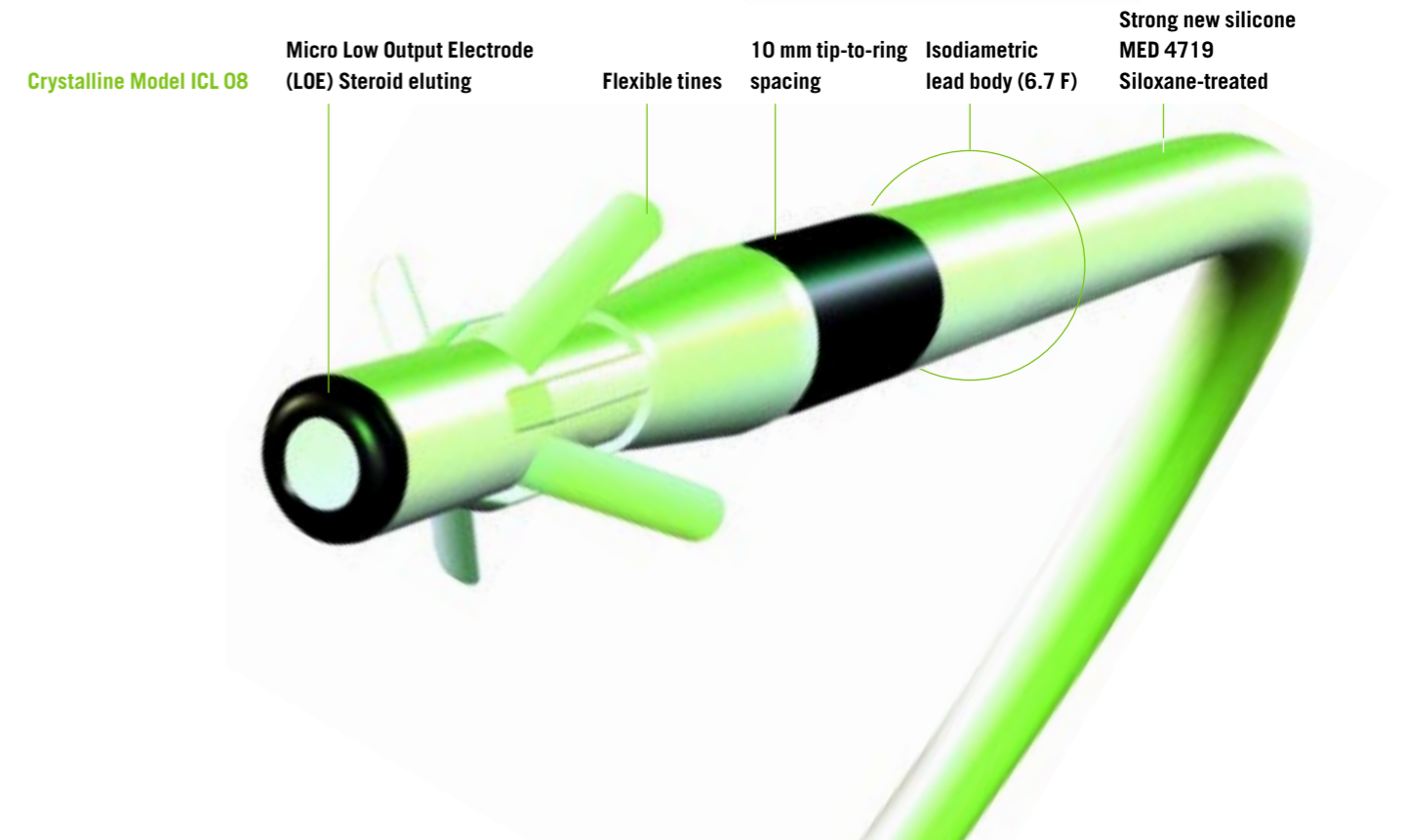
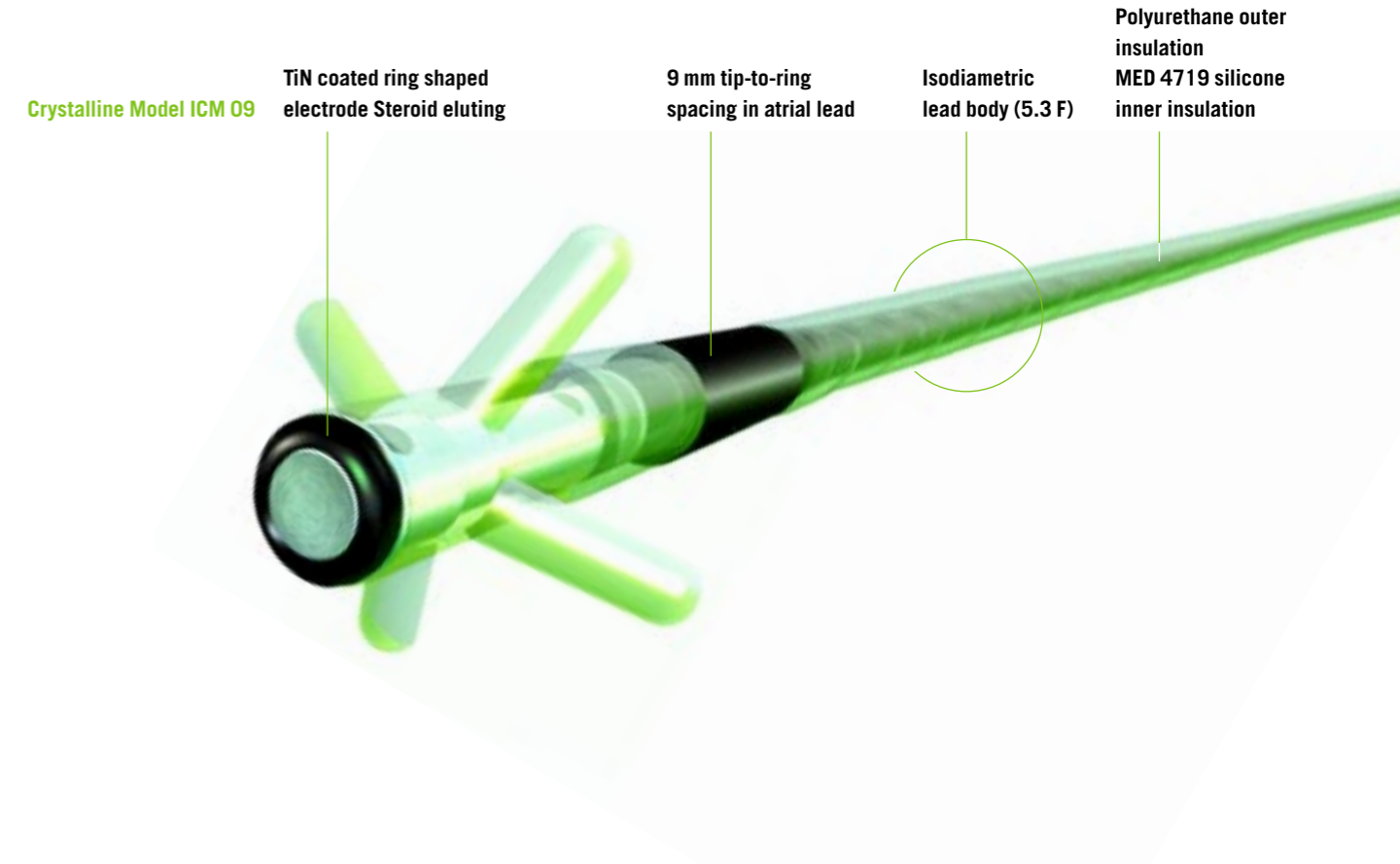
- Unique ring-shaped tip electrode for stable heart wall contact
- Steroid eluting electrode provides low pacing thresholds and increased pacemaker longevity

Ease of handling

- 5.3 F lead body for easier passage and positioning (model ICM 09)
- Isodiametric lead body allows a thin introducer and facilitates lead extraction

Choice

- Two lead body designs for personal handling preference
 - Model ICL 08 have silicone inner and outer insulation
 - Model ICM 09 have silicone inner and polyurethane outer insulation
- MED - 4719 silicone inner insulation to improve crush-resistance for long-term reliability
- Polyurethane outer insulation reduces lead-to-lead friction



passive fixation

CRYSTALLINE Product specifications

Model	ICM 09	ICM 09B	ICM 09JB
Polarity	Unipolar	Bipolar	Bipolar
Shape	Straight	Straight	J-Shape
Chamber	Ventricle/Atrium	Ventricle/Atrium	Atrium
Fixation	4 tines	4 tines	4 tines
Material			
Inner insulation	Silicone MED 4719	Silicone MED 4719	Silicone MED 4719
Outer insulation	Polyurethane	Polyurethane	Polyurethane
Conductor	MP 35 N nickel alloy	MP 35 N nickel alloy	MP 35 N nickel alloy
Tip electrode	Titanium nitride coated platinum alloy	Titanium nitride coated platinum alloy	Titanium nitride coated platinum alloy
Ring electrode	-	Titanium nitride coated platinum alloy	Titanium nitride coated platinum alloy
Body diameter	1.2 mm (3.5 F)	1.8 mm (5.3 F)	1.8 mm (5.3 F)
Introducer size			
One lead	7 F	7 F	7 F
With guide wire	8 F	9 F	9 F
Tip/Ring distance	-	17 mm	9 mm
Electrode surface area			
Tip	2.5 mm ²	2.5 mm ²	2.5 mm ²
Ring	-	24 mm ²	24 mm ²
Coil resistance			
Unipolar	40 Ω (58 cm)	41 Ω (58 cm)	37 Ω (53 cm)
Bipolar	-	83 Ω (58 cm)	51 Ω (53 cm)
Steroid	< 1.0 mg dexamethasone acetate and dexamethasone sodium phosphate	< 1.0 mg dexamethasone acetate and dexamethasone sodium phosphate	< 1.0 mg dexamethasone acetate and dexamethasone sodium phosphate
Standard lengths	52, 58, 65 cm	52, 58, 65 cm	45, 53 cm
Connector	IS-1 UNI	IS-1 BI	IS-1 BI
Serial number prefix	VMS	VMT	VMU

Model	ICL 08	ICL 08B	ICL 08JB
Polarity	Unipolar	Bipolar	Bipolar
Shape	Straight	Straight	J-Shape
Chamber	Ventricle/Atrium	Ventricle/Atrium	Atrium
Fixation	4 tines	4 tines	4 tines
Material			
Inner insulation	Silicone MED 4719	Silicone MED 4719	Silicone MED 4719
Outer insulation	Silicone MED 4719	Silicone MED 4719	Silicone MED 4719
Conductor	MP 35 N nickel alloy	MP 35 N nickel alloy	MP 35 N nickel alloy
Tip electrode	Microporous platinized platinum	Microporous platinized platinum	Microporous platinized platinum
Ring electrode	-	Platinized platinum alloy	Platinized platinum alloy
Body diameter	1.65 mm (5.0 F)	2.2 mm (6.7 F)	2.2 mm (6.7 F)
Introducer size			
One lead	7 F	8 F	8 F
With guide wire	8 F	9 F	9 F
Tip/Ring distance	-	10 mm	10 mm
Electrode surface area			
Tip	3.2 mm ²	3.2 mm ²	3.2 mm ²
Ring	-	35 mm ²	35 mm ²
Coil resistance			
Unipolar	42 Ω (58 cm)	42 Ω (58 cm)	37 Ω (53 cm)
Bipolar	-	100 Ω (58 cm)	60 Ω (53 cm)
Steroid	< 1.0 mg dexamethasone acetate and dexamethasone sodium phosphate	< 1.0 mg dexamethasone acetate and dexamethasone sodium phosphate	< 1.0 mg dexamethasone acetate and dexamethasone sodium phosphate
Standard lengths	52, 58, 65 cm	45, 52, 58, 65 cm	45, 53 cm
Connector	IS-1 UNI	IS-1 BI	IS-1 BI
Serial number prefix	VMM	VMN	VMP

- Vitatron is a fast-growing international medical device company that combines a rich history with active physician partnerships; we deliver patient-focused therapies for the treatment of cardiac rhythm disorders.
- Our unique approach to product development yields elegant, sophisticated therapies and diagnostics that are attuned to patients' specific physiological needs.
- In all of our activities, we demonstrate a strong commitment to our corporate vision.

Head Office:

Vitatron B.V.

P.O. Box 5227
 6802 EE Arnhem
 The Netherlands
 Telephone : +31 (0)26 376 7777
 Fax : +31 (0)26 376 7666
www.vitatron.com

Sales Offices:

Vitatron Africa (Pty.) Ltd., +27 (0)11 616 11 70
 Vitatron Australia, +61 (0)7 336 696 57
 Vitatron Austria, +43 (0)1 207 80 30
 Vitatron Belgium, +32 (0)16 232 897
 Vitatron Canada, +1 905 826 60 20
 Vitatron Denmark A/S, +45 70 237 043
 Vitatron Finland Oy, +358 (0)9 32 32 120
 Vitatron France, +33 (0)1 464 801 01
 Vitatron Germany, +49 (0)2203 911 900
 Vitatron Italy, +39 051 323 186
 Vitatron Japan Co., Ltd., +81 (0)3 345 213 41
 Vitatron The Netherlands, +31 (0)26 376 7000
 Vitatron Portugal, +351 21 723 0648,
 +351 21 723 0698

Vitatron Spain, +34 913 728 426
 Vitatron Sweden AB, +46 (0)8 778 40 95
 Vitatron Switzerland, +41 (0)61 713 00 15
 Vitatron U.K. Ltd., +44 (0)1454 454900
 Vitatron USA, +1 763 514 21 96*

Vitatron is further represented by dealers throughout the world.

All specifications subject to change without notice.

* The Crystalline ICL 08 models are currently not available in the USA.

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