Unify Assura[™]

Cardiac Resynchronization Therapy Defibrillator (CRT-D)

Product Highlights

- Parylene coating for improved abrasion resistance
- DynamicTx[™] Over-Current Detection Algorithm automatically changes shock configurations to ensure delivery of high voltage therapy when high current is detected
- Cold Can programmability provides an additional RV-SVC Shock Configuration to decouple the can from the shocking vector parameters in cases of lead problems
- ShockGuard[™] technology with DecisionTx[™] programming designed to reduce inappropriate therapy and minimise the need for programming adjustments at implant
- SecureSense™ RV lead noise discrimination detects sustained and short bursts of lead noise that would otherwise go unnoticed or potentially lead to one or more inappropriate shocks
- Far Field MD[™] morphology discrimination and Chamber Onset discrimination improve SVT and VT discrimination for reduced inappropriate therapies
- Antitachycardia pacing (ATP) while charging and prior to charging in the VF zone further extends the programming options for terminating tachyarrhythmias without a high-voltage shock
- Low frequency attenuation filter designed to enhance sensing performance and may reduce the possibility of oversensing T-waves



Merlin@home™ Transmitter Compatible

- Sense*Ability*[™] feature provides flexibility to fine-tune programming around T-wave oversensing without decreasing sensitivity
- DF4 connector designed to streamline defibrillation connections into a single terminal pin and reduce the number of set screws
- Unique 40 J delivered energy safety shock option can provide a greater DFT safety margin
- DeFT Response[™] technology offers the most noninvasive options for managing high DFTs
- QHR⁺ chemistry battery provides greater capacity for enhanced longevity and improved charge time performance compared to previous SVO batteries
- Vibratory patient notifier enables patients with hearing problems to be alerted to a low battery, lead-related complications and more
- CorVue[™] congestion monitoring feature monitors the intrathoracic impedance in multiple vectors for improved accuracy, and it provides the option for both patient and physician alerts
- QuickOpt[™] timing cycle optimisation provides quick and effective optimisation at the push of a button

Ordering Information

Contents: Cardiac Pulse Generator

MODEL NUMBER	DIMENSIONS (H x W x T, MM)	WEIGHT (G)	VOLUME (CC)	CONNECTOR DEFIBRILLATION	CONNECTOR SENSE/PACE
CD3361-40C	79 x 40 x 14	78	36	DF1	IS-1
CD3361-40QC	73 x 40 x 14	77	36	DF4	DF4; IS-1

Indications: The devices are intended to provide ventricular antitachycardia pacing and ventricular defibrillation for automated treatment of life-threatening ventricular arrhythmias. Cardiac Resynchronisation Therapy Defibrillators (CRT-Ds) are also intended to resynchronise the right and left ventricles in patients with congestive heart failure.

Contraindications: Contraindications for use of the pulse generator system include ventricular tachyarrhythmias resulting from transient or correctable factors such as drug toxicity, electrolyte imbalance or acute myocardial infarction.

Adverse Events: Implantation of the pulse generator system, like that of any other device, involves risks, some possibly life-threatening. These include but are not limited to the following: acute hemorrhage/bleeding, air emboli, arrhythmia acceleration, cardiac or venous perforation, cardiogenic shock, cyst formation, erosion, exacerbation of heart failure, extrusion, fibrotic tissue growth, fluid accumulation, hematoma formation, histotoxic reactions, infection, keloid formation, myocardial irritability, nerve damage, pneumothorax,

thromboemboli, venous occlusion. Other possible adverse effects include mortality due to: component failure, device-programmer communication failure, lead abrasion, lead dislodgment or poor lead placement, lead fracture, inability to defbrillate, inhibited therapy for a ventricular tachycardia, interruption of function due to electrical or magnetic interference, shunting of energy from defibrillation paddles, system failure due to ionising radiation. Other possible adverse effects include mortality due to inappropriate delivery of therapy caused by: multiple counting of cardiac events including T waves, P waves, or supplemental pacemaker stimuli. Among the psychological effects of device implantation are imagined pulsing, dependency, fear of inappropriate pulsing and fear of losing pulse capability.

Refer to the User's Manual for detailed indications, contraindications, warnings, precautions and potential adverse events.

Cardiac Resynchronization Therapy Defibrillator (CRT-D)

Product Specifications

PHYSICAL SPECIFICATIONS

Models	CD2261-40C	CD2261-400C	Puedvooudio Do-in-		
Models Telemetry	CD3361-40C RF	CD3361-40QC RF	Bradycardia Pacing	Of DDD(D) DDT(D) DDI(D) 13/77(D) 13/7(D) + + 17(D)	
Telemetry Delivered/Stored Energy (J)			Permanent Modes	Off; DDD(R); DDT(R); DDI(R); VVT(R); VVI(R); AAI(R)	
	40/45	40/45	Temporary Modes Rate-Adaptive Sensor	Off; DDD; DDT; DDI; VVT; VVI; AAI; AAT; DOO; VOO; AOO On; Off; Passive	
Volume (cc)	36	36	Programmable Rate and	Off; Base Rate (min ⁻¹); Rest Rate (min ⁻¹); Maximum Tracking	
Weight (g)	78	77	Delay Parameters	Rate (min ⁻¹): Maximum Sensor Rate (min ⁻¹): Paced AV Delav	
Size (mm)	79 x 40 x 14	73 x 40 x 14	Delay Farameters	(ms); Sensed AV Delay (ms); Rate Responsive AV Delay;	
Defibrillation Lead Connections	DF1	DF4		Hysteresis Rate (min ⁻¹); Rate Hysteresis with Search	
Sense/Pace Lead Connections	IS-1	IS-1; DF4	LV Cap [™] Confirm; RV Cap [™]	Setup; On; Monitor; Off	
High-Voltage Can	Electrically active titanium can	Electrically active titanium can	Confirm	······································	
Coating	Parylene	Parylene	ACap™ Confirm	On; Monitor; Off	
			QuickOpt [™] Timing Cycle	Interventricular Pace Delay	
	CETTINICS.		Optimization		
PARAMETER SETTINGS		Auto Mode Switch (AMS)	Off; DDI(R); DDT(R); VVI(R); VVT(R)		
Biventricular Pacing			AMS Detection Rate (min ⁻¹)	110-300	
V. Triggering	On; Off		Atrial Tachycardia Base Rate	40; 45; 135	
QuickOpt [™] Timing	Sensed/paced AV delay, interventricular pace delay		Auto PMT Detection/Termination	Atrial Pace on PMT; Off; Passive	
Cycle Optimization			Rate Responsive PVARP/VREF	Off; Low; Medium; High	
V-V Timing	Simultaneous'; RV First; LV First		Ventricular Intrinsic Preference	Off; On (50–200)	
Interventricular Pace Delay (ms)	RV First 10-80/LV First 15-80 in increments of 5		(VIP TM)		
Ventricular Sensing	RV only (not programmable)		Post-Therapy Pacing (Independently programmable from Bradycardia and ATP)		
Ventricular Pacing Chamber	RV only; biventricular		Post-Shock Pacing Mode	Off; AAI; VVI; DDI; or DDD	
Negative AV Hysteresis/	Off; -10 to -120		Post-Shock Base Rate (min ⁻¹)	30-100 in increments of 5	
Search (ms)			Post-Shock Pacing Duration (min)	Off; 0,5; 1; 2,5; 5; 7,5; or 10	
Shortest AV Delay (ms)	25-120		Device Testing/Induction Methods		
VectSelect [™] Programmable LV	LV tip to RV coil; LV bipolar; LV r	ing to RV coil	DC Fibber™ Pulse Duration (sec)	0,5-5,0	
Pulse Configuration			Burst Fibber Cycle Length (ms)	20-100	
AF Management			Noninvasive Programmed	2-25 stimuli with up to three extra stimuli	
AF Suppression [™] Pacing	On; Off		Stimulation (NIPS)		
No. of Overdrive Pacing Cycles	15-40 in steps of 5		Patient Notifiers		
Maximum AF Suppression Rate	80–150 min ⁻¹		Programmable Notifiers (On; Off)	Device at ERI; Charge Time Limit Reached; Possible HV	
Sensing/Detection				Circuit Damage; Atrial Lead Impedance Out of Range; RV Lea	
SenseAbility™ Technology	Automatic Sensitivity Control adj	tur and fam atrial and		Impedance Out of Range; LV Lead Impedance Out of Range;	
SenseAbility." Technology	ventricular events	ustment for atrial and		High-Voltage Lead Impedance Out of Range; AT/AF Burden;	
Low Frequency Attenuation	On: Off			V Rate During AT/AF; % V Pacing; CorVue™ Congestion	
Sense Filter	(Post-Sensed; Atrial) 50; 62,5; 75;	100% (Dest Desed Atria)		Trigger; SecureSense lead noise detected; nonsustained lead	
Selise Filter	(Post-Sensed; Atriar) 50; 02,5; 75; 0,2–3,0 mV;	100%; (Fost-Faced; Athai)	Device Parameter Reset	noise detected On	
Threshold Start	(Post-Sensed; Ventricular) 50; 62,5; 75; 100%; (Post-Paced; Ventricular) Auto; 0,2–3,0 mV		Entry into Backup VVI Mode	On	
The shold start			Vibration Duration (sec)	2; 4; 6; 8; 10; 12; 14; 16	
Decay Delay	(Post-Sense/Post-Pace; Atrial/Ventricular) 0–220		Number of Vibrations per	2, 4, 0, 0, 10, 12, 14, 10	
Ventricular Sense Refractory (ms)			Notification	2	
Detection Zones	3 zone programming - 1 zone, 2 zones or 3 zones (VT-1, VT-2,		Number of Notifications	1–16	
Detection Hones	VF)	Siles of 5 Lones (11 1, 11 2,	Time between Notifications (hours)	10; 22	
SVT Discriminators	AV Rate Branch; Arrhythmia Onset (Chamber Onset or		Electrograms and Diagnostics	-,	
	Sudden Onset); Interval Stability;	AV Association; Morphology	Stored Electrograms	Up to 45 minutes including up to 1 minute programmable	
	Discrimination (Far Field MD™ c	or Original MD) with Manual	biored Electrograms	pre-trigger data per VT/VF diagnosis/detection; electrograms	
	(original MD only) or Automatic	Template Update		triggers include: diagnosis; detection; therapy; atrial episode;	
Discrimination Modes	On; Passive; Off			PMT termination; PC shock delivery; noise reversion; magnet	
SVT Threshold	150-240 min ⁻¹			reversion; morphology template verification; lead noise	
SVT Timeout	0,25-5 min			detected; non-sustained lead noise detected; NSVT/NSVF	
Lead Noise Discrimination	SecureSense™ RV lead noise disc	rimination (On; On with	Therapy Summary	Diagram of therapies delivered	
	Timeout; Passive; Off)		Episodes Summary	Directory listing of up to 60 episodes with access to more	
Monitor Mode	Detection, discrimination and dia	gnostics, no therapy delivery		details including stored electrograms	
	(VT or VT-1 zone)		Lifetime Diagnostics	History of bradycardia events and device-initiated charging	
Reconfirmation	Continuous sensing during charging		AT/AF Burden Trend	Trend data and counts	
Antitachycardia Pacing Therapy		Ventricular HV Lead Impedance Trend	Multi-Vector Trend Data		
ATP Configurations	Ramp; Burst; Scan; 1 or 2 schemes	s per VT zone	Histograms	Event Histogram; AV Interval Histogram; Mode Switch	
ATP in VF Zone	ATP While Charging; ATP Prior	to Charging; Off	1 iistograms	Event Histogram; AV Interval Histogram; Mode Switch Duration Histogram; Peak Filtered Rate Histogram; Atrial	
ATP Upper Rate Cutoff	150-300 min ⁻¹			Heart Rate Histogram; Ventricular Heart Rate Histogram;	
Burst Cycle Length	Adaptive; Readaptive or Fixed			AT/AF Burden; Exercise and Activity Trending; V Rates	
Min. Burst Cycle Length (ms)	150-400 in increments of 5			During AMS; DirectTrend [™] reports up to 1 year	
Number of Bursts/Stimuli	1-15 with 2-20 Stimuli		PMT Data	Information regarding PMT detections	
Add Stimuli per Burst	On; Off		Real-Time Measurements (RTM)	Pacing lead impedances; high-voltage lead impedances; and	
ATP Pulse Amplitude (V)	7,5 Independent from Bradycardi	a and Post-Therapy Pacing		signal amplitudes	
ATP Pulse Width (ms)	1,0 or 1,5 Independently program		CorVue [™] Congestion Monitoring	On; Off	
× 7	Post-Therapy Pacing	÷	CorVue Congestion Trigger	8-18 days	
High-Voltage Therapy					
DynamicTx [™] Algorithm	On; Off		* LV first with 10 ms interventricula	r delav.	
DeFT Response [™] Technology	Programmable pulse width for P1/	/P2 and tilt	21 mot wei 10 mo merventi retta	,-	
High-Voltage Output Mode	Fixed Pulse Width; Fixed Tilt	1 2 unu ult			
Waveform	Biphasic; Monophasic				
RV Polarity	Cathode (-): Anode (+)				

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RV Polarity Electrode Configuration

Customer Support: 46-8-474-4756

Cathode (-); Anode (+) RV to Can; RV to SVC/Can; RV to SVC

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.
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