

Medtronic

Engineering the extraordinary

Unleash the future of RF ablation today

Accurian™ RF ablation
for nerve tissue



Consistent and predictable lesions across all channels



Smart features promote efficiency and ease of use



Future ready and easy to upgrade

Designed from the ground up

The Accurian™ platform combines proprietary hardware design and quad core processing, resulting in sophisticated algorithms that manage power and control temperature.

Accurian can perform three types of procedures: standard, enhanced (using internally cooled probes), and pulsed.



Consistent and predictable

Lesions across all channels

- Ultra-responsive proprietary algorithms **accurately regulate temperature**, measuring temperature 100 times/sec and tissue impedance 10,000 times/sec to adjust energy output
- **The Smart Start algorithm** strategically distributes power to ensure that all channels reach and maintain the set temperature – reducing the risk of underpower scenarios
- If needed, generator can deliver up to 50W of power in a single channel to reach temperature

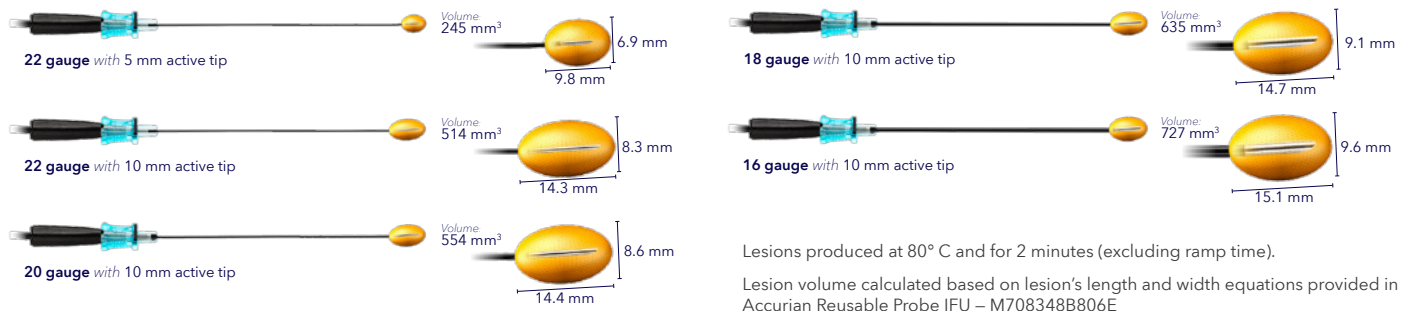
Future ready

Stay at the forefront of RF ablation

- **Easily upgrade software via USB** to minimize downtime
- **Add cooling pump** for enhanced procedures with internally cooled probes

Comprehensive range of lesion sizes

Lesion sizes produced during standard procedures



Smart, modern features

Promote ease of use and efficient workflows

Proprietary generator design

- Compact generator design combined with large 15.6" 16-9 high-resolution touchscreen for clear visualization
- Intuitive, easy-to-use touchscreen interface
- HDMI port for secondary monitor
- Self-tests and self-calibrates with each generator start, reducing the need for maintenance

Efficient procedure workflows

- Up to 10 treatment or physician profiles
- Chip-enhanced smart probes* are easily identified on screen to simplify troubleshooting
- Truly independent channel control allows four different starts, stops, restarts, times, and temperatures – simultaneously and mid-procedure
- One-button and one-probe testing:
 - Target Value button allows jumping to pre-set stim value
 - Delay-High-Impedance feature allows transition of a probe between cannulas without disabling/re-enabling stim

Integrated training and reporting tools

- Demo mode
- Step-by-step on-screen tutorial for staff training
- PDF procedure and reusable probe usage reports

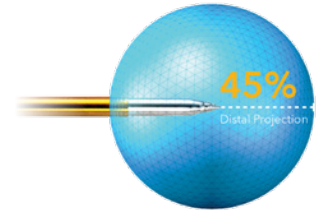


* Feature might be temporarily unavailable in standard single use probes (models APSDXXX)

AccurianTM enhanced RF

Internally cooled probes create larger, spherical lesions with greater distal projection

- Larger spherical lesions (*compared with standard lesions*)
- Flexibility in approach angle with enhanced probes; as much as 45% of lesion volume is projected distally to probe tip



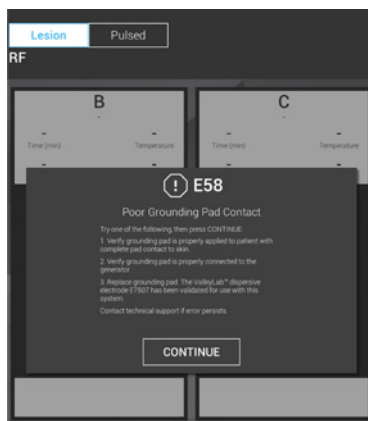
Lesions produced at 80°C for 2 minutes excluding ramp time – ramp rate set at 80°C/min.

Lesion volume calculated based on lesion's length and width equations provided in Accurian Enhanced RF Probe Kit IFU – M708348B804E.

[†]Average of lesion width and length (exact length and width are used for volume calculation)

Advanced probe design enhances procedure control

- **Sharp tip probe and introducer design** – for easy access
- **Lightweight probe design** – Provides stability and limits probe movement during the procedure.
- **Stylet-free repositioning in tissue** – enabled through probe sharp-tip unibody design. No need to pull the probe out.
- **Thermocouple at the tip** – away from the probe cooled area, ensures accurate tissue temperature reading and precise temperature control. Thermal lesion may be set at 80°C.
- **Can be seated in contact with the bone** – Unibody probe sharp-tip allows safe use of bony landmark.



AccurianTM safety features

Accurian generator runs many safety tests, such as grounding pad contact and high impedance alerts. Alert messages provide actionable steps for the clinician to resolve the issue.

Enhanced system components

Generator, cooling pump, and hub

Item number	Description
AG1000	RF generator with stand
AP1000	Pump with stand
APH200	Enhanced hub

Grounding pad: Only use dual dispersive grounding pads that meet IEC 60601-2-2 requirements for electrosurgical electrodes. Single dispersive grounding pads will not work with the Accurian™ system. No dispersive electrode is provided; however, the ValleyLab™ dispersive electrode E7507 has been validated for use.

Internally cooled probe kits

Probe kit includes: (1) cooled probe, (1) introducer, (1) tubing kit

Item number	Length (cm)	Active tip (mm)	Gauge (G)
APSC01	5 cm	4 mm	17
APSC02	10 cm	4 mm	17
APSC03	15 cm	4 mm	17
APSC04	5 cm	5.5 mm	17
APSC05	10 cm	5.5 mm	17
APSC06	15 cm	5.5 mm	17
APSC07	5 cm	2 mm	17
APSC09	10 cm	2 mm	17



Enhanced introducers (come in box of 10)



Item number	Compatible with:
AI0001	APSC01 Accurian™ enhanced probe 50 mm, 4 mm tip
AI0002	APSC02 Accurian™ enhanced probe 100 mm, 4 mm tip
AI0003	APSC03 Accurian™ enhanced probe 150 mm, 4mm tip
AI0004	APSC04 Accurian™ enhanced probe 50 mm, 5.5 mm tip
AI0005	APSC05 Accurian™ enhanced probe 100 mm, 5.5 mm tip
AI0006	APSC06 Accurian™ enhanced probe 150 mm, 5.5 mm tip
AI0007	APSC07 Accurian™ enhanced probe 50 mm, 2 mm tip
AI0009	APSC09 Accurian™ enhanced probe 100 mm, 2 mm tip

The enhanced introducer allows for insertion of the enhanced probe.

- For use with Accurian™ enhanced probes only
- Includes an insulated stainless steel cannula and a stylet
- Straight sharp
- 17 G
- Sterile
- Single use



Individually pouched, boxes of 10

Accurian™ enhanced product offering provide ultimate flexibility

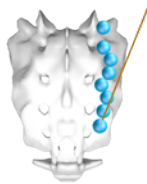
Knee (3-4 lesions)



- Option 1:*
1 probe kit + 2 introducers
- Option 2:*
3 probe kits

Add additional introducer for suprapatellar nerve as needed

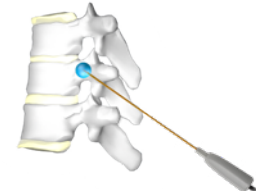
SI region (6-8 lesions)



- Option 1:*
2 probe kits + 4-6 introducers
- Option 2:*
4 probe kits + 2-4 introducers

Add additional introducer for L5 as needed

Lumbar (2-4 lesions)



- Option 1:*
1 probe kit + 1-3 introducer
- Option 2:*
2-3 probe kits + 2-3 introducers
- Option 3:*
4 probe kits

Add additional introducers for bilateral as needed

Standard system components

Generator and hub

Item number	Description
AG1000	RF generator with stand
APH100	Standard hub

Grounding pad: Only use dual dispersive grounding pads that meet IEC 60601-2-2 requirements for electrosurgical electrodes. Single dispersive grounding pads will not work with the Accurian™ system. No dispersive electrode is provided; however, the ValleyLab™ dispersive electrode E7507 has been validated for use.

Reusable standard probes

Item number	Description	Length (cm)
APSR050	Reusable probe stainless steel 16-22 G	5 cm
APSR100	Reusable probe stainless steel 16-22 G	10 cm
APSN050	Reusable probe nitinol 16-22 G	5 cm
APSN100	Reusable probe nitinol 16-22 G	10 cm
APSN150	Reusable probe nitinol 16-22 G	15 cm

Reusable nitinol probes* have been validated to 266 cleaning and sterilization cycles.

*Probes with updated design – lot#≥BY21M021

Single use standard probes (come in box of 4)

Item number	Description	Length (cm)
APSD050	Single-use probe 16-22 G	5 cm
APSD100	Single-use probe 16-22 G	10 cm
APSD150	Single-use probe 16-22 G	15 cm



Universal probes are compatible with all cannula gauges. Come in three lengths to meet varying anatomical needs. Match probe length to cannula length.

Sterilization tubes for reusable probes (come in box of 4)

Item number	Compatible with	Length (mm)
APMT050	Accurian™ reusable probe 50mm	50 mm
APMT100	Accurian™ reusable probe 100mm	100 mm
APMT150	Accurian™ reusable probe 150mm	150 mm

Cannula (come in box of 10)

Item number	Description	Length (cm)	Active tip (mm)	Gauge (G)
AC0020	Curve blunt	10cm	10 mm	22
AC0011	Curve blunt	10 cm	10 mm	20
AC0014	Curve blunt	15 cm	10 mm	20
AC0015	Curve sharp	5 cm	5 mm	22
AC0008	Curve sharp	5 cm	10 mm	20
AC0004	Curve sharp	5 cm	10 mm	18
AC0001	Curve sharp	5 cm	10 mm	16
AC0016	Curve sharp	10 cm	5 mm	22
AC0018	Curve sharp	10 cm	10 mm	22
AC0009	Curve sharp	10 cm	10 mm	20
AC0005	Curve sharp	10 cm	10 mm	18
AC0002	Curve sharp	10 cm	10 mm	16
AC0012	Curve sharp	15 cm	10 mm	20
AC0007	Curve sharp	15 cm	10 mm	18
AC0003	Curve sharp	15 cm	10 mm	16
AC0017	Straight sharp	10 cm	5 mm	22
AC0019	Straight sharp	10 cm	10 mm	22
AC0010	Straight sharp	10 cm	10 mm	20
AC0006	Straight sharp	10 cm	10 mm	18
AC0013	Straight sharp	15 cm	10 mm	20



The Accurian™ platform has been extensively tested for lasting reliability.

The Accurian™ RF ablation system is an Rx only nerve ablation system intended for the creation of radiofrequency lesions in nervous tissue. Refer to product instruction manuals and package inserts for a complete list of instructions, warnings, precautions, and contraindications.

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