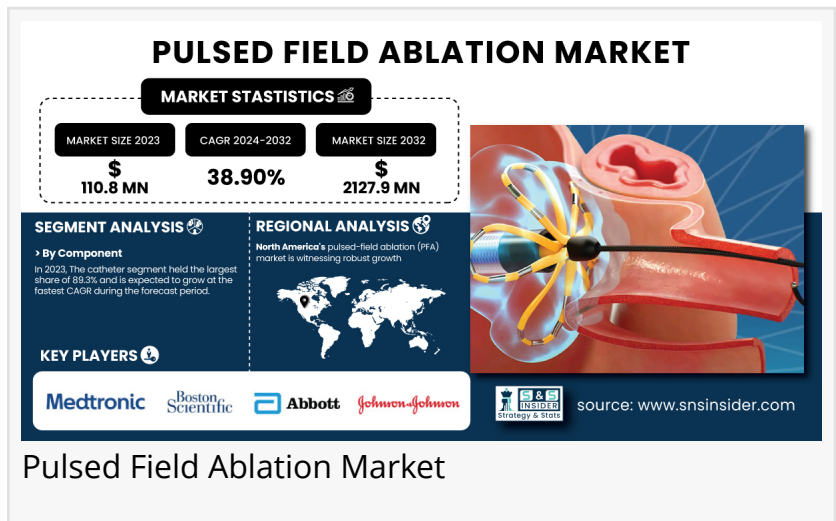


Pulsed Field Ablation Market to Hit \$2127.9 Million by 2032, Growing at 38.90% CAGR

Rising Atrial Fibrillation Cases and Advancements in PFA Technology Propel Market Growth Globally

AUSTIN, TX, UNITED STATES, February 4, 2025 /EINPresswire.com/ -- According to Research by SNS Insider, The [Pulsed Field Ablation Market](#) size was estimated at USD 110.8 million in 2023 and is expected to reach USD 2127.9 million by 2032 at a CAGR of 38.90% during the forecast period of 2024-2032.



The Pulsed Field Ablation (PFA) market is experiencing rapid growth with a rise in cases of cardiac arrhythmias, especially atrial fibrillation (AF).

PFA has emerged as a preferred treatment option in atrial fibrillation owing to its high precision and an improved risk profile to the patients and operators when compared with ablation modalities such as radiofrequency and cryoablation. The prevalence of cardiac arrhythmias, including AF, has risen, thus requiring less invasive and safer treatments. Compared to VAT, PFA is a low-thermal dissection method that greatly minimizes damage to tissues and therefore an attractive treatment option for both the medical provider and your patient. Technological advances like the FDA-approved FARAPULSE PFA System developed by Boston Scientific are driving adoption, with over 40,000 patients treated and outstanding clinical outcomes. Other factors supporting market growth are the high healthcare spending and favorable regulations as well as the shift to minimally invasive and personalized medicine. Industry-leading medical device companies are now paying attention here, investing in the development of PFA technology sophistication, operational efficiency, and accessibility to accommodate demand growth.

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Key Players in Pulsed Field Ablation Market

- Medtronic - (PFA System, Cryoablation Catheters)
- Boston Scientific - (Pulsed Field Ablation Catheter, Rhythm Management Solutions)
- Abbott (TactiCath - Contact Force Ablation Catheter, EP Mapping System)
- Philips Healthcare - (Ultrasound Systems, EP Navigation Solutions)
- Johnson & Johnson - (Biosense Webster™ EP System, ThermoCool™ SmartTouch Catheter)
- AtriCure - (AtriClip™ Left Atrial Appendage Exclusion Device, Isolator Synergy Ablation System)
- Siemens Healthineers - (ARTIS pheno™, Acuson Sequoia Ultrasound)
- Stereotaxis - (Niobe ES Magnetic Navigation System, Stereotaxis Odyssey)
- Hansen Medical - (Magellan Robotic Catheter System, Sensei X Robotic Catheter System)
- MediGuide - (MediGuide™ System for Catheter Navigation, MediGuide Solutions)
- iRhythm Technologies - (Zio Patch, Zio Service Platform)
- LivaNova - (VNS Therapy System, Perioperative Monitoring Solutions)
- Endologix - (Aortic Intervention Devices, Endovascular Solutions)
- Cardinal Health - (Interventional Catheters, Ablation Services)
- Biotronik - (Eclipse Pacing Lead, Novacor Implantable System)
- St. Jude Medical - (Amigo Remote Catheter System, Ensite Velocity System)
- Inari Medical - (ClotTrievers Device, FlowTrievers Device)
- Merit Medical Systems - (EmboGuide Catheter, Merit Vascular Access Products)
- Bard Medical - (Ablation Devices, Peripheral Vascular Access Products)
- ConMed - (Ablation System, Electrosurgical Products)

Segment Analysis

By Component

In 2023, the catheter segment dominated the market and accounted for the largest market share of about 89.3% in the Pulsed Field Ablation (PFA) market. This segment is expected to grow the fastest rate during the forecast period due to the increasing incidence of atrial fibrillation (AF) and a trend toward minimally invasive procedures. Advancing technology in catheter design, improved patient outcomes, and the expansion of clinical use all add to the strong growth of this segment. With increased awareness, specialty catheters specifically made of PFA are expected to pick up gradually in the years to come.

The PFA generator segment experiencing significant growth because it can be done with exact, non-thermal ablation, and further has enhanced safety features. PULSED AF, a study whose primary safety adverse event rate is 0.7%, gives success to PFA generators. Such trends are gaining ground as increasingly, people favor novel, highly effective treatments of cardiac arrhythmias.

By Indication

The Atrial fibrillation segment dominated the market with a 97.2% market share in 2023. It is the most common sustained arrhythmia. Such a medical condition, because of its relatively higher

incidence amongst elderly patients who are more at risk, finds much stronger therapeutic needs. Precisely this characteristic of affording better safety with greater accuracy renders PFA technology an option, which comparatively seems more approachable than older methods of ablation.

Non-atrial fibrillation segment is expected to grow significantly in the subsequent forecast period, because this non-AFib category includes conditions like ventricular tachycardia, which is at high risk for complications with the onset of severe complications in heart failure or stroke, among others. PFA technology is expanding faster into management for various types of life-threatening arrhythmias such as ventricular tachycardia, which is also one of the leading causes of sudden cardiac death.

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Pulsed Field Ablation Market Segmentation

By Component

- Catheters
- Generators

By Indication

- Atrial Fibrillation
- Non-atrial Fibrillation

By End-Use

- Inpatient Facilities
- Outpatient Facilities

Regional Analysis

North America dominated the Pulsed Field Ablation market and occupies a significant position, highly developed healthcare structure, a higher prevalence of cardiac arrhythmias, and a greater adoption of new medical technologies. This region supports established reimbursement policies, easy access to the latest treatments, and patient-centered care. Due to leading healthcare institutions and continuous clinical trials across North America, PFA technology adoption in the treatment of atrial fibrillation and other cardiac arrhythmias is rapidly increasing. Moreover, the increased awareness among patients and physicians about the benefits of minimally invasive treatment leads to increased demand for PFA procedures in this region.

Asia Pacific is the fastest-growing region in the PFA market. The healthcare sector in this region is growing at a rapid rate, and the incidence of cardiac arrhythmias has increased. Furthermore, healthcare spending has also gone up. The large and aging population is found mainly in

countries such as China and India, thus demanding advanced treatment solutions like PFA. The rapidly growing middle class in the region, the number of healthcare reforms, extending benefits to medical technologies; and a rising population are primarily propelling the increase in the adoption of PFA. In the Asia Pacific, the PFA market is moving forward with enhanced awareness of the continuum of arrhythmia treatments propelling the market for more minimally invasive and safer procedures.

Recent Developments

- In January 2024, Boston Scientific Corporation announced that it received United States Food and Drug Administration (FDA) approval for its FARAPULSE Pulsed Field Ablation (PFA) System. The FARAPULSE PFA System is indicated for ablation of the pulmonary veins for the treatment of drug-refractory, recurrent, symptomatic paroxysmal atrial fibrillation (AF).
- In December 2023, Medtronic plc, a global leader in healthcare technology, announced it has received U.S. Food and Drug Administration (FDA) approval for its PulseSelect Pulsed Field Ablation (PFA) System for the treatment of paroxysmal and persistent atrial fibrillation (AF). It is the first FDA approval of PFA technology.

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