SANO HomeQure vs. Rife Machines

Why these are not the same category of technology — a comparison guide for practitioners and customers

Summary

SANO HomeQure and Rife-type machines are not variations on the same idea. They are built on fundamentally different technological concepts and fundamentally different therapeutic philosophies, and this document sets out exactly why.

The essential distinction:
Rife-type technology attempts to **use specific, single, high frequencies** — typically in the kHz to MHz range **— to directly target and destroy a presumed pathological organism** or abnormal tissue.

SANO HomeQure works in the opposite direction: it uses pulsed electromagnetic fields across a wide range of very low frequencies, designed to mirror frequencies already present in the human body and in nature — the brain's own Beta, Alpha, Theta and Delta rhythms, and the Schumann resonance around 8 Hz, sometimes called the "frequency of life" — **to influence biological processes and support physiological regulation, cellular function and tissue response, rather than to hunt down and destroy a single target**.

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SANO HomeQure has demonstrated biological effects across several systems:

- Improved blood circulation
- Improved oxygenation of cells and tissues throughout the body
- Upregulated mitochondrial function — helping every cell produce energy and function better
- Support for the autonomic nervous system, particularly upregulating the parasympathetic (rest-and-recover) branch
- Modulation of inflammation, oxidative stress and calcification
- Support for the body's own detoxification processes

In practice, that gives SANO HomeQure two roles.

- First and foremost, it is an **essential daily preventive therapy for use at home**, supporting the physiological processes that keep the body resilient before problems arise.

- Second, it is used by physicians and therapists as a **complementary therapy** — supporting the management of chronic pain and the rehabilitation of a wide range of chronic conditions. It will help improve the effectiveness of whatever primary treatment a patient is already receiving.

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Introduction

SANO HomeQure and Rife-type devices sometimes get mentioned in the same breath, because both are described using the word "frequency." That is close to where the similarity ends. They come from different eras, rest on different scientific premises, are regulated in completely different ways, and are built to do fundamentally different jobs. This document lays out those differences plainly and with specifics — real regulatory history, real FDA clearances, real study citations — so that practitioners can explain the distinction with confidence, and customers can see clearly why the two are not interchangeable.

What a Rife Machine Actually Is

Rife technology takes its name from **Royal Raymond Rife**, who in the 1920s and 1930s claimed to observe microorganisms changing or dying when exposed to specific frequencies under a specialised microscope, and proposed that every pathogen has a corresponding destructive frequency — sometimes called its "Mortal Oscillatory Rate." That original work was never independently replicated to the standard required for a medical claim, and it predates essentially all of modern cell biology, immunology and biophysics.

"Rife machine" today is not one product or one technology. It is a marketing label attached to a wide range of unrelated devices — some using electrical conduction via contact electrodes, some using coils, some using plasma tubes (high voltage, light emission) — with most Rife systems using higher frequencies in the range of kHz up into the MHz range (1 MHz = 1,000,000 Hz). There is no shared engineering standard across the category, which is itself telling: manufacturers are not converging on a validated design because there is no validated design to converge on.

The regulatory record on this is not ambiguous. The FDA has issued warning letters to Rife-type device marketers, including a sweep of 23 U.S. companies and two foreign individuals, for marketing products that claimed to cure, treat, mitigate or prevent cancer without FDA approval. No Rife-type device is FDA authorized to treat, cure, mitigate or prevent any disease. This is not a matter of one bad manufacturer; it is the pattern across the category.

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A note on intellectual honesty: the "tumor frequency" idea isn't 100% fantasy — but that doesn't rescue Rife machines

To give the fairest possible account, it's worth acknowledging that the general idea behind Rife's claim — that a tumor or pathogen might have an identifiable, targetable electromagnetic signature — has produced legitimate research, just not from Rife machines. In 2009, Barbault and colleagues published a study identifying tumor-specific frequencies across 163 cancer patients and offering compassionate treatment to 28 of them using amplitude-modulated radiofrequency fields. That research programme was developed over roughly two decades, under conventional clinical and regulatory scrutiny, and eventually led to the TheraBionic P1 device, which received FDA marketing authorization in September 2023 (via the Humanitarian Device Exemption pathway) for advanced hepatocellular carcinoma in patients who have exhausted other options — a prescription-only, physician-administered device delivering carefully controlled radiofrequency fields. This device is not a consumer Rife machine, it does not use the settings found in Rife frequency lists, and its approval came from 20-plus years of rigorous clinical development, not from historical claims about resonant destruction of pathogens. If anything, TheraBionic's existence sharpens the contrast — it shows what it actually takes for a frequency-based concept to earn regulatory acceptance, and consumer Rife devices have not gone through, and have not survived, that process.

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What SANO HomeQure Actually Is

SANO HomeQure is a pulsed electromagnetic field (PEMF) device. Rather than trying to identify and destroy a specific pathogen or abnormal tissue with one matching frequency, it exposes the body to a controlled, time-varying magnetic field designed to give the body's own regulatory systems — the autonomic nervous system, the vascular endothelium, cellular signalling pathways — a physiological input they can respond to. **Nothing is being targeted for destruction; a process that already exists in the body is being supported.**

The signal is delivered through named, defined programs rather than a single dialled-in number: Relax, Basis and Vital form the established core Foundational frequency programs, proven over the last 30 years to be among the most effective PEMF programs, extended on HomeQure with additional Wellness programs including Fibonacci, Solfeggio Chakra Balance, Schumann, Flux, Flux Plus and Basis Plus. **Each program is a complete signal — fundamental frequency, harmonics, waveform and pulse structure together — not a single isolated tone**.

Intensity is specified precisely, in magnetic flux density: roughly 0-80 microtesla for private users, extending to approximately 4 millitesla for practitioners using dedicated applicators (e.g. SANO Flex and SANO Belt) for deeper tissue targets.

PEMF as a device category carries real regulatory weight. The FDA cleared the first PEMF bone-growth stimulator in 1979, and has since cleared PEMF devices for adjunctive treatment of non-union fractures, spinal fusion, post-operative pain and edema (including as an adjunct to cervical fusion), chronic wounds, osteoarthritis and plantar fasciitis. That makes PEMF the only category in this comparison with an established, decades-long FDA clearance track record for specific medical indications. As with any device-class evidence, these clearances apply to the specific devices and parameters studied, not automatically to every PEMF product on the market — but HomeQure's programs and field strengths sit within, or exceed, the ranges used in this research, which is why the underlying mechanisms are directly relevant to it.

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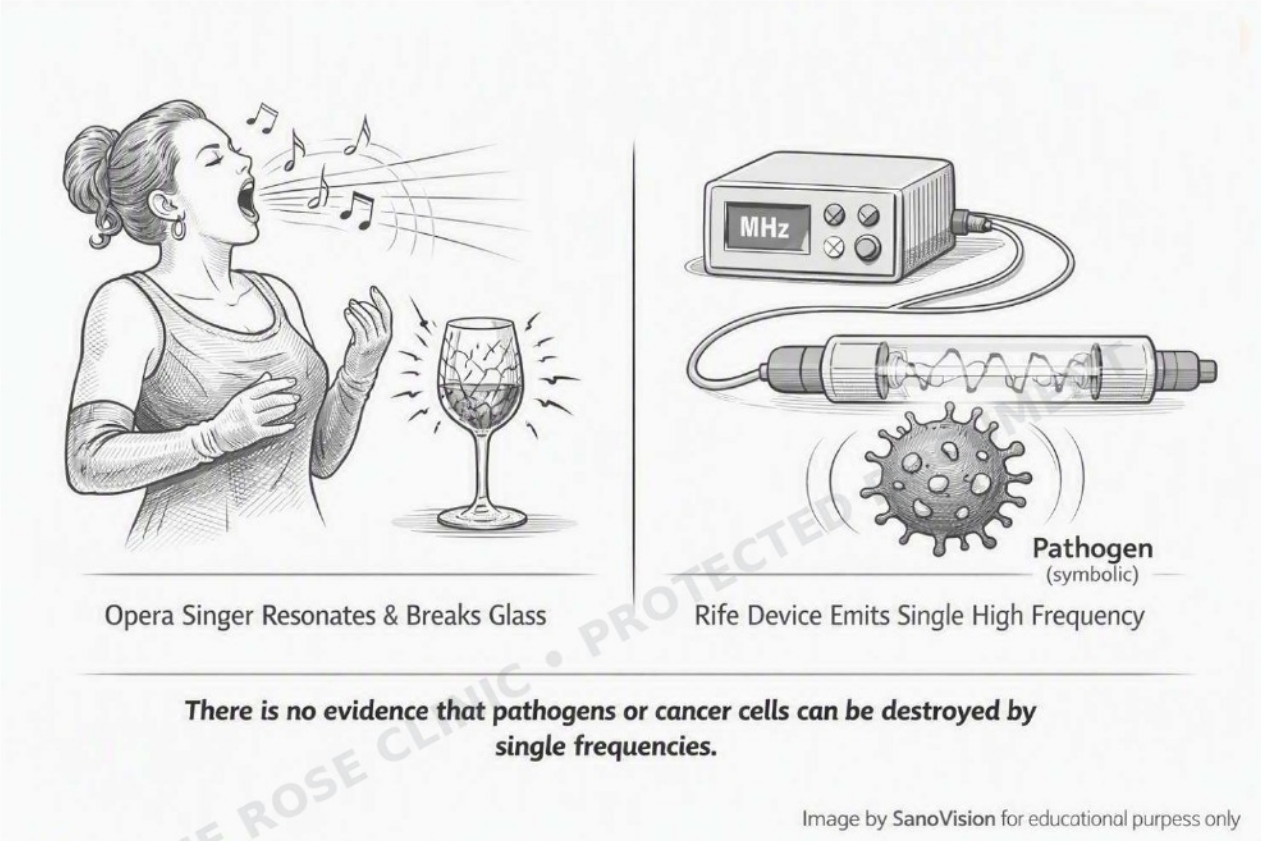
The Core Conceptual Difference

One important difference between Rife machines and SANO HomeQure is that most Rife machines use much higher, and single, frequencies. Even though some Rife systems also use lower frequencies, most operate in the kHz and MHz range, and some even reach GHz. **The objective is to find the resonant frequency of a pathogen or tumor and destroy or kill it** — similar to an opera singer who can shatter a glass by matching its resonant frequency and increasing the amplitude of her voice.



It's tempting to reduce this comparison to "Rife uses high frequencies, SANO HomeQure uses low ones" — but that undersells the real distinction, which is about what the frequency is being asked to do:

- **Rife's logic: frequency as a weapon.** Identify an enemy (a pathogen, a tumor), find its frequency, aim the device at it, destroy it. The frequency is a targeting coordinate.

- **SANO HomeQure's logic: signal as an input.** Give the body a controlled electromagnetic cue — the way exercise, sunlight or temperature are inputs the body responds to — and let existing physiological regulation do the rest. There is no target being aimed at; there is a system being supported. The objective is to improve the energy production and function of the body's cells, so that those cells can do the job they were designed to do — such as fight inflammation, reduce oxidative stress, reduce calcification, and pump out toxins.

This is why the two technologies cannot be meaningfully placed on a single dial from "low" to "high" frequency. They are not two settings on the same machine — they are two different theories of what a frequency does to a living body.

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Side-by-Side Comparison

The comparison below is grouped into four sections — technology and design, regulation and safety, core physiological effects, clinical positioning and organ and system support.

1. Technology & Design

Dimension	Rife-type devices	SANO HomeQure
Core concept	Find the frequency believed to match a pathogen or diseased tissue, apply it, and destroy the target directly.	Deliver a defined, whole-body magnetic signal that gives the body's own regulatory systems a physiological cue to work with.
Origin	1920s-30s, Royal Raymond Rife, single inventor, never independently replicated as originally described.	Modern PEMF research field, multiple independent research groups, decades of publication history.
Frequency architecture	• Not standardized. Varies device to device; commonly built around selecting one frequency per condition from a list of hundreds. • Important: single frequency only — cells do not respond well to a single, unchanging frequency. • Important: much higher frequencies (kHz and MHz range). • Important: the focus is not on cellular healing or cellular revitalisation. • The focus is also not on improving performance and recovery — for that, the stimulation is too aggressive and unnatural.	• Important: multi-frequency architecture. HomeQure programs — such as the foundational Basis program — combine many frequencies together to increase the chance of resonance. Each program is a complete, multi-component signal, not a single dialled-in number. • Important: uses low frequencies that mirror frequencies already present in the human body and in nature (e.g. Beta, Alpha, Theta, Delta, and the Schumann resonance). Special programs such as Chakra Balance also resonate with all chakras (up to 1000 Hz). • Important: combines many frequencies in logical harmonic groups — like musical chords — avoiding negative interference. • Important: modulates these harmonic frequency groups on a natural waveform. A healing effect at the cellular level is only achievable with soft, subtle stimulation.
Delivery method	• Varies by manufacturer: contact electrodes, coils, plasma tubes, RF generators. • Output type (voltage, current, RF, light) is not consistent across the category. • In short: an electrical technology.	• Magnetic induction only, specified in micro tesla/milli tesla, with dedicated applicators engineered for defined field geometry. • In short: a pulsating magnetic technology.
Intensity / depth control	• Not standardized; penetration and dose are typically undocumented. • Because higher frequencies penetrate the body poorly, reaching deeper structures requires increasing intensity — which brings more side effects.	• 0-80 micro tesla for private use, milli tesla range for practitioner applicators. • Intensity functions as a depth-of-penetration control, not a different biological effect. • Low frequencies penetrate through the whole body and reach every cell. • Higher intensity for deeper, stronger penetration is not painful.

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2. Regulatory Status, Evidence & Safety

Dimension	Rife-type devices	SANO HomeQure (PEMF)
Regulatory status	No Rife-type device is FDA authorized to treat, cure, prevent, or mitigate any disease. FDA has issued warning letters over unapproved disease claims; a Rife-type device marketer was criminally convicted in 2009.	PEMF as a device category has FDA-cleared indications, the first dating to 1979, spanning non-union fracture healing, spinal fusion adjunct, post-operative pain/edema, chronic wounds, osteoarthritis and plantar fasciitis.
Clinical evidence	The core "kill the pathogen" claim has not been established by controlled clinical trials for any commercial Rife device.	• A large peer-reviewed literature spanning circulation, bone repair, inflammation/chronic pain, autonomic function and endothelial function. • Hundreds of published studies on low-intensity PEMF — including higher-quality studies on circulation, bone repair, inflammation, endothelial function, stroke rehabilitation and lung function, alongside a larger body of lower- to medium-quality studies across many chronic conditions.
Energy transfer & biological interaction	• Delivers electrical or optical energy that interacts directly with charged particles and can irritate nerves or muscles if misused — risk of overstimulation. • Potential thermal and electrical stress; EMF electro smog exposure comparable to mobile-phone use (both operate in the MHz range). • Sessions are usually short (minutes) and infrequent, since prolonged exposure can cause fatigue, headache or tissue heating.	• Interacts inductively, influencing ion channels and cellular signalling without direct current flow through tissue — non-thermal, gentle modulation. • Safe for everyday use, including long, frequent, restorative sessions.
Side effects & thermal effects	Tissue can warm up if sessions run too long.	• No side effects beyond the need to stay well hydrated, and the possibility of a noticeable detoxification response if fluid intake is insufficient. • Energy at these low intensities is so low there is no thermal effect — the energy transferred supports the cells' own mitochondria rather than heating tissue.
Contra-indications	• Pacemakers: strongly contra-indicated. • Pregnancy: usually discouraged. • Epilepsy: caution advised. • Metal implants: risk of heating. • Cardiovascular instability: caution advised, due to electrical stimulation.	For private-user intensities (below 100 µT) — always discuss with a physician first: • No significant known risk for pacemakers. • Generally considered safe during pregnancy. • Usually considered safe with epilepsy. • Generally considered safe with metal implants. • Often reported as beneficial for cardiovascular instability.
Used in hospitals?	No.	Yes — as a complementary therapy, for example by physiotherapy departments.

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3. Core Physiological Effects

Effect	Rife-type devices	SANO HomeQure (PEMF)
Improved blood circulation?	No — high frequencies and electrical/plasma delivery are not physiologically aligned with vascular or autonomic mechanisms.	Yes. HomeQure supports microcirculation through natural, low-frequency resonance (see separate document for mechanisms)
Improved oxygenation of cells & tissues?	No — RIFE systems simply do not operate in the biological windows that regulate oxygenation.	Yes. Oxygenation depends on specific biological mechanisms, all of which HomeQure engages: • Microcirculation • Endothelial nitric-oxide release • Autonomic parasympathetic activation • Improved red-blood-cell deformability • Reduced rouleaux (red-cell aggregation) • Mitochondrial activation
Improved mitochondrial function?	No — RIFE's high-frequency electrical/plasma stimulation does not activate the biological pathways responsible for ATP production, oxygenation or cellular energy.	Yes, through: • Microcirculation • Nitric-oxide signalling • Autonomic balance • Calcium-channel modulation • Improved oxygenation • Reduced oxidative stress
Improved parasympathetic / vagal tone?	No — RIFE's high-frequency electrical/plasma stimulation does not activate the biological pathways responsible for relaxation, heart-rate variability, autonomic balance or sleep.	Yes, through: • Low-frequency resonance • Autonomic modulation • Nitric-oxide signalling • Improved microcirculation • Reduced sympathetic stress • Improved sleep architecture
Inflammation modulation?	No — RIFE's high-frequency electrical/plasma stimulation does not activate the biological pathways responsible for reducing inflammation.	Yes, through: • Nitric-oxide signalling • Improved microcirculation • Autonomic balance • Mitochondrial activation • Reduced oxidative stress • Improved oxygenation
Detoxification?	No — detoxification is energy-dependent, and RIFE does not increase cellular energy or activate the relevant pathways.	Yes, through: • Improved microcirculation • Mitochondrial activation • Autonomic balance • Improved oxygenation • Enhanced ion-pump activity • Reduced oxidative stress • Improved function of the lymphatic system, liver, kidneys, lungs and skin
Improved uptake of nutrients by cells?	No.	HomeQure improves electrical activity within the cell (making the inside more negative relative to the outside), creating a stronger electrical gradient that helps pull in essential positively charged nutrients such as potassium and magnesium, offsetting the natural diffusion gradient.

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4. Clinical positioning, Organ & System Support

Area	Rife-type devices	SANO HomeQure (PEMF)
Typical positioning	Condition-driven: select a disease, apply its (single) frequency — most often reached for once someone is already ill.	Physiology-driven: support circulation, relaxation, recovery and regulation — used daily as a preventive practice as well as clinically.
Relationship to conventional medicine	Often marketed as a replacement or cure, which is precisely what regulators have objected to.	• HomeQure does not cure diseases. It helps your cells, so that your cells can help you. • First and foremost, HomeQure is essential daily preventive wellness therapy for everybody who wants to stay young, fit and vital, used at home — ten minutes of HomeQure aims to provide effects comparable to a two-hour daily walk. • Second, for physicians, HomeQure is positioned explicitly as a complementary therapy — supporting the physiological conditions (oxygenation, circulation, autonomic balance) that other treatments and medications depend on to work well.
When to expect positive effects?	RIFE may provide temporary subjective relief through sensory distraction or relaxation rituals, but there is no evidence of biological effects on circulation, inflammation, mitochondria, autonomic balance, or tissue repair.	You can expect positive effects from HomeQure in every area of your body where your cells need oxygen and energy for repair, or where your body can benefit from improved parasympathetic nerve function.
Wellness, Relaxation and sleeping	RIFE systems have no clear physiological mechanism for relaxation or sleep improvement; their high-frequency electrical stimulation tends to activate rather than calm the nervous system.	HomeQure, especially in the 0.1-10 Hz range, promotes parasympathetic activation, stress reduction, and sleep regulation.
Brain support / neurological	RIFE systems do not support brain function: • Uses frequencies that are too high. • Energy partially converts to heat, which does not support brain function. • Does not improve circulation. • Does not improve autonomic balance / vagal tone. • Does not activate mitochondria — and ATP energy production is critical given the brain's high energy demand.	HomeQure has a strong positive effect supporting brain function, through: • Improved microcirculation • Improved oxygenation • Mitochondrial activation • Nitric-oxide signalling • Autonomic balance • Reduced inflammation • Improved sleep architecture
Eye support	No.	The SANO Eye applicator supports circulation, helps reduce intraocular pressure, and modulates inflammation.
Skin support	No.	Yes, through: • Better microcirculation • Better oxygenation • Increased collagen production • Reduced inflammation • Improved ATP production • Improved lymphatic flow • Improved membrane potential • Better sleep and reduced stress

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Heart support	No — RIFE shows no improvement in circulation, oxygenation, heart-rate variability/vagal tone, mitochondrial function or endothelial function, and no reduction in inflammation. No cardiac benefit is supported by evidence.	Yes: • Improved microcirculation • Improved oxygenation • Improved HRV and vagal tone • Improved mitochondrial function • Reduced inflammation • Improved endothelial function • Better recovery and cardiac support • Can help support healthy blood pressure via faster blood flow, a steadier heart rate, increased stroke volume and improved vascular resistance • A strong evidence base
Lung support	No.	HomeQure helps red blood cells separate and, as a result, bind more oxygen collectively. It also modulates inflammation, which can make it a useful complementary support for asthma, bronchitis, COPD and pneumonia.
Metabolic support	No.	HomeQure helps improve energy production in all body cells.
Stroke rehabilitation	No.	As a complement to physiotherapy, HomeQure may help reduce nerve pain, supporting faster neurorehabilitation and an improved ability to carry out daily tasks (bathing, dressing, mobility), and may help reduce the risk of a second stroke.
Pain relief?	RIFE does not relieve pain through a biological mechanism. Any perceived relief is likely due to: • Mild heating • Sensory distraction • Placebo effect These are temporary and superficial, not therapeutic.	SANO HomeQure has documented positive effects on pain reduction, through: • Reduced inflammation • Improved microcirculation • Modulation of nerve hyperexcitability • Autonomic balance • Mitochondrial activation
Claims in relation to cancer	Implies to customers that cancer can be cured by finding and applying the frequency that resonates with the cancer tissue — a claim with no supporting clinical evidence and no FDA authorization.	Makes no claim that HomeQure can "cure" cancer. It is positioned as an essential complementary therapy where consistent use may help with: • Reducing cancer-related pain • Palliative care and quality of life • Post-treatment recovery (after chemotherapy or radiation) • Cellular energy production, which the body uses for apoptosis, detoxification, inflammation control and oxidative-stress reduction • Immune modulation • Bone health • Stress reduction • Supporting fibroblast activity

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Why SANO HomeQure Is the Stronger Choice

- **A defined, reproducible signal.** Named programs with specified frequency content, and field strength quoted in micro tesla/milli tesla — not an undocumented mix of voltages, currents and RF outputs that varies by manufacturer.
- **Real regulatory track record.** PEMF is the only technology in this comparison with FDA-cleared indications, going back to 1979. Rife-type devices have a track record of warning letters and at least one criminal conviction for the same category of claim HomeQure deliberately does not make. SanoVision (Germany) has for many years been technological leader in PEMF Frequency therapy. Not all PEMF systems are good for you. An effective and well constructed PEMF requires multi frequency architecture, combining frequencies in logical harmonic way, avoiding negative interference, avoiding hard monotonic 'hammer-and-nail' stimulation, using correct timing patterns and natural waveform ensuring soft and subtle stimulation on cellular level.
- **A broad, independently replicated evidence base.** PEMF research spans multiple decades and many independent research groups, covering vascular function, autonomic regulation, inflammation and tissue repair — not a single inventor's unreplicated 1930s claim.
- **Covers the full range from home wellness to clinical strength in one coherent product line.** The same programs run from gentle, private-use intensities up to practitioner-grade milli tesla output with dedicated applicators — one system, not a jump between unrelated technologies.
- **Honest positioning that holds up to scrutiny.** HomeQure is presented as a complementary support to conventional medicine — helping the physiological conditions (oxygenation, circulation, autonomic balance) that other treatments and medications rely on — rather than as a replacement or a cure. That is exactly the claim regulators have not objected to, and it is also, simply, the accurate description of what a physiological-modulation device does.
- **A program built around goals, not diagnoses.** Relaxation, recovery, circulation and vitality are physiological targets anyone can understand and evaluate for themselves — not a menu of "select your disease" settings that implies a targeted cure the evidence doesn't support.

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A Note on How to talk about this with patients and customers

The most persuasive thing about SANO HomeQure's position is that it doesn't need to borrow Rife's kind of claim to be compelling. Practitioners should feel free to be direct: HomeQure does not identify or destroy pathogens, and it must never be presented as a cure for any disease. What it does — supported by a genuinely large body of published PEMF research and a real FDA clearance history for the device category — is support circulation, autonomic balance, and tissue repair processes that matter across almost every condition a patient might be dealing with. That is a narrower claim than "kills the cause of your illness," and it is precisely because it is narrower, specific and evidence-backed that it holds up to scrutiny in a way Rife-style claims consistently have not.

Closing remark

SANO HomeQure and Rife-type devices both use the word "frequency," and that is essentially where the resemblance ends. Rife technology is built on a single, unreplicated 1930s hypothesis that a pathogen can be identified and destroyed by its resonant frequency — a claim with no FDA authorization behind it and a documented history of enforcement action against companies making it.

SANO HomeQure is a pulsed electromagnetic field device built on a physiological-support model, backed by decades of independent research on PEMF and by the only FDA clearance track record of any technology in this comparison. One is a targeting concept with an unresolved evidence problem; the other is a signal-based physiological tool with real regulatory and scientific standing. They are not two versions of the same idea, and they should not be marketed, purchased or discussed as if they were.

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