

Hydrafacial Machine - Official Clinical Overview & Technical Datasheet

CLINICAL ARCHITECTURE & DESIGN

The Hydrafacial system represents a paradigm shift in non-invasive aesthetic dermatology, functioning as a comprehensive multi-therapy platform rather than a single-purpose device. Engineered as a complete, closed-loop system, it performs up to seven distinct therapies in one continuous, streamlined process, eliminating the need for practitioners to switch between disparate tools or pause between steps. This integration ensures a smooth, consistent workflow that is both highly efficient for providers and immediately rewarding for patients. The core of the device's clinical efficacy lies in its patented Vortex-Fusion technology, which employs a spiral design and precise vacuum fluidics to execute simultaneous, dual-action treatment: the removal of impurities and dead skin cells from the skin's surface while concurrently infusing deeply hydrating, nourishing serums. This method is fundamentally different from traditional microdermabrasion and generic hydrodermabrasion devices, as it establishes a continuous, closed-loop contact with the skin that enhances serum absorption and maximizes therapeutic outcomes while minimizing patient irritation and downtime.



KEY INDICATIONS & CAPABILITIES

The HydraFacial system is indicated for a broad spectrum of dermatological concerns and skin types, offering a versatile solution for prophylaxis and treatment . Its customizable nature allows for precise adaptation to individual patient needs, addressing conditions ranging from textural irregularities and hyperpigmentation to sebaceous congestion and the visible signs of aging . The treatment protocol is comprised of a sequence of therapeutic phases: it begins with lymphatic drainage to reduce puffiness and promote circulation, followed by a crystal-free hydradermabrasion step for exfoliation, a gentle chemical peel, and painless vortex-powered extraction to clear pores . The final phases include the infusion of targeted booster serums—formulated with clinically studied actives like peptides, growth factors, and hyaluronic acid — and optional adjunctive LED light therapy (red for collagen support and fine-line

improvement, blue for acne management) . Clinical evidence demonstrates that the system effectively increases epidermal and papillary dermal thickness and fibroblast density, suggesting a significant enhancement in collagen and elastin production, key components of skin firmness and elasticity .

COMPLIANCE & STANDARDS

As a premier medical aesthetic device, the Hydrafacial system is designed and manufactured in accordance with the highest global regulatory standards for clinical safety and performance. While specific certifications vary by regional model and configuration, the platform is developed to comply with the essential requirements of the European Medical Device Regulation (MDR) for the CE mark and has received market clearance from the U.S. Food and Drug Administration (FDA) as a Class II medical device for its various indications. The system's commitment to safety is reinforced through its use of single-use, disposable HydroPeel tips, which ensure a sterile, hygienic treatment experience for every patient, effectively eliminating cross-contamination risks inherent in reusable, multi-patient implements . This rigorous adherence to compliance and infection control protocols makes the Hydrafacial system a trusted and integral asset in high-volume dermatology clinics and medical spas worldwide.

TECHNICAL SPECIFICATIONS

The Hydrafacial device portfolio offers different models to suit varying clinical spaces and practice needs, from the compact Allegro to the high-capacity Elite and the technologically advanced Syndeo system. The core technical architecture, however, remains consistent across the range, built around the proprietary Vortex-Fusion engine. A standard system comprises a main console with an integrated touchscreen interface for intuitive operation, a versatile handpiece with interchangeable tips, and a multi-serum delivery system. The Syndeo model enhances this foundation with advanced digital features, including cloud-based tracking for device usage and treatment patterns, gesture-based controls for improved hygiene, on-screen protocols for treatment standardization, and seamless practice management software integration .

Parameter	Specification
Core Technology	Patented Vortex-Fusion Delivery System
Treatment Modalities	Lymphatic Drainage, Hydradermabrasion, Chemical Peel, Painless Extraction, Serum Infusion, LED Therapy

Primary Indications	Fine lines, wrinkles, hyperpigmentation, acne, congested pores, dehydrated skin, loss of firmness
Treatment Duration	30 - 60 Minutes per session
Patient Downtime	None; presentable immediately after treatment
Handpiece Interface	Single-use, disposable HydroPeel tips
Adjunctive Therapies	Red & Blue LED Light Therapy

CLINICAL PROTOCOLS

The standard Hydrafacial treatment protocol is a 30- to 60-minute procedure that follows a structured, multi-step pathway, adaptable to specific clinical objectives. Prior to the main treatment, a thorough skin assessment is conducted to evaluate the patient's condition and determine the optimal customizations . The fundamental protocol, as evidenced in clinical practice, progresses through three core phases: 1) Deterision and Peeling, involving a gentle cleansing and a light, relaxing chemical peel to renew the skin; 2) Extraction and Hydration, where painless suction removes impurities from the pores while deeply nourishing the skin; and 3) Veiculation and Protection, which

saturates the skin with a potent blend of antioxidants, peptides, and hyaluronic acid to maximize radiance and fortify the skin barrier . The treatment can be further augmented with Lymphatic Drainage to depuff and sculpt, and LED light therapy to address specific concerns like acne or aging . For optimal, cumulative results, a series of treatments—for instance, an average of three sessions every 15 days—is often recommended as part of a monthly maintenance protocol .

