POWER

AIR-FLOW® THERAPY

COMPLETE BIOFILM MANAGEMENT SOLUTIONS
DEEP DOWN, hidden between the root surface and gingiva, up to 1,500 different strains of bacteria continue to destroy soft tissue and bone under the cover of biofilm.

WHY IS BIOFILM SUCH A CONCERN?
- Micro-organisms colonize the area and develop a protective layer. Bacteria then separate and colonize other areas.
- Bacteria underneath biofilm are resistant to drug therapy.
- Immune defenses of the body are powerless — in order to prevent a bacterial invasion, the body triggers a process which breaks down bone tissue.

WHEN BACTERIA COLONIZE
- Biofilm accumulation
- Inflammation
- Oral diseases
- Tooth/implant loss

- Wound surface of moderate periodontitis in the entire oral cavity is the size of the palm of a hand.
- 7000mm²

- Periodontitis and peri-implantitis can lead to increased health risk factors throughout the body:
  - Diabetes 2-11X
  - Atherosclerosis 2X
  - Osteoporosis 2-4X (according to Hetz/Hendriks 2004)

- Strokes 2X
- Premature birth 4-8X (higher than when healthy)
- Chronic disease of the bronchial passages 2-4X

FOCUS ON BIOFILM

ORAL SYSTEMIC LINK – in action

- Periodontitis is the most common form of tooth loss.
- Periodontitis affects the entire immune system — often with dramatic effects on the entire body.
- Peri-implantitis is the periodontitis of implant patients. Biofilm adheres to the titanium implant, causing peri-implant infections, withdrawal of supporting bone and loss of implant.

AIR-FLOW Therapy is not simply an air polisher — it is an advanced biofilm management system that is uniquely equipped to reach and remove biofilm on even the most difficult and delicate surfaces where rubber cups have limited access or hand and power scaling would take too long — crowded teeth, subgingivally, on implants, around ortho brackets — the list goes on.

Using a mixture of air, water and low abrasive powders, AIR-FLOW Therapy is gentle, safe and comfortable for patients, and simple, efficient and effective for clinicians.

THE ADVANTAGES OF AIR-FLOW THERAPY

AIR-FLOW Therapy can support your practice’s business needs and goals while also supporting patient health — a win-win for you as a clinician.

AIR-FLOW Therapy offers complete biofilm removal and can be used on every patient. Since it is safe to use on surfaces where biofilm accumulation can be dangerous, primarily subgingivally and on implants, AIR-FLOW Therapy aids in the reduction of inflammation and the prevention of related diseases ranging from gingivitis to periodontitis/peri-implantitis.

AIR-FLOW Therapy saves an average of 8-12 minutes per patient. When using AIR-FLOW prior to scaling, clinicians will save time not only on biofilm removal, but also on calculus removal since scaling can focus on hard deposit detection and removal alone.

Clinicians receive positive feedback from their patients who have experienced AIR-FLOW Therapy. Incorporating this advanced, fast and comfortable technology into practice will encourage even patients with the most complex peri-maintenance regimen to return regularly.

With the 8-12 minutes per patient saved, the clinician is now able to do something extra during every appointment that they may not have had time for previously. There is now opportunity to explain and sell billable services such as whitening, clear aligners, sealants, etc., or even update charting to ensure patient treatment plans are as up-to-date as possible.

AIR-FLOW Therapy

Your Solution: AIR-FLOW THERAPY — THE BETTER WAY
AIR-FLOW THERAPY

INCORPORATING AIR-FLOW THERAPY
Most clinicians are used to polishing with rubber cups or supragingival air polishers at the end of treatment. Hu-Friedy recommends using AIR-FLOW first to receive the most benefits. Clinicians find that removing biofilm first saves 8–12 minutes per patient. Once the coating of biofilm is removed from the entire mouth, less instrumentation time is spent “scaling” soft deposits. Calculus is easier to see, detect, and remove – resulting in all around time savings throughout the procedure.

BREAKING DOWN THE TECHNOLOGY

STANDARD AIR-FLOW NOZZLE
With Classic powders (sodium bicarbonate)
• Supragingival air polishing and stain removal
With Plus powder (erythritol) or Perio powder (glycine)
• Delicate supragingival surfaces (ortho, restorations)
• Shallow subgingival biofilm removal (up to 4mm)

PERIO-FLOW NOZZLE
With Plus powder (erythritol) or Perio powder (glycine)
• Thin, tapered plastic nozzle attachment allows the powder/air/water mixture to be disseminated into a pocket*
• Adaptable around implant and restoration structures that are often difficult to reach and clean

USE AIR-FLOW FIRST

I save an average of 10 minutes per patient using AIR-FLOW with low-abrasive powders first in the appointment which I now use for improved services, education, and treatment enrollment. Win/win/win for the patient, for me and for the practice.

KAREN DAVIS, RDH, BSDH

SCIENTIFIC EVIDENCE FOR AIR-FLOW THERAPY

AIR-FLOW THERAPY is a proven solution for biofilm removal.

A CLOSER LOOK AT BIOFILM REMOVAL

Reduction of pocket depth: by 1.22 mm after 4–6 weeks

Study 1
On a scale of one (very pleasant) to ten (unbearable), the AIR-FLOW PERIO method was rated 2.18.

Clinical study on the subgingival application of the AIR-FLOW technology with PERIO-FLOW handpiece and nozzle together with AIR-FLOW PERIO powder, Prof. Dr. U. P. Saxer, Zurich, Switzerland

Study 2
AIR-FLOW Therapy has been perceived as more acceptable and more time efficient than scaling and root planning (SRP).

Moëne R., Décaillet F., Andersen E., Mombelli A., School of Dental Medicine, University of Geneva, Switzerland – Journal of Dental Research 2009

REDUCING POCKET DEPTH

Response to treatment of 200 periodontal pockets in patient recalls 3-6 months post-treatment

AIR-FLOW THERAPY EXPERIENCE

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PERIO-FLOW®

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FIGHTS STAINING AND MICROBIAL TOOTH DEPOSITS
Prevents gingivitis, periodontitis and caries
- Bacteria and micro-organisms in plaque are responsible for the spread of gingivitis, periodontitis and caries. This is countered by the removal of microbial tooth deposits and the effect of fluoride action.

WHEN PLACING PIT AND FISSURE SEALANTS
Minimizes the risk of caries
- Cleaning the fissures before sealing improves the adherence of the sealing material and reduces the risk of caries.

IN CONSERVATIVE DENTISTRY
Extends the life and optimizes the quality of synthetic restorations
- Cleaning the surface to prepare for enamel etching improves the adherence of composite, ceramic inlays and veneers.

IN PROSTHETICS
Facilitates color determination
- Cleaning healthy teeth for color adjustment of bridges, crowns, inlays and onlays, etc.

IN ORTHODONTICS
Reduces treatment risks
- Preparing the surface prior to bonding, cleaning of cemented bands, removing adhesive residue and bonded brackets
- Removing plaque/biofilm around brackets and other fixed appliances without removing wires

IN ESTHETIC DENTISTRY
Optimizes bleaching performance
- Cleaning the teeth before bleaching helps determine the exact natural color of the teeth
- Preparing the tooth surface guarantees the optimum efficacy of the bleaching agent

SUPRAGINGIVAL PLAQUE/BIOFILM REMOVAL
Cleans soft deposits from tooth surfaces
- The versatility of AIR-FLOW ensures that plaque/supragingival biofilm is quickly and efficiently removed from supragingival surfaces.
- Once all of the plaque is gone, it is easier to detect calculus, and rubber cup/paste is not needed.

SUBGINGIVAL BIOFILM REMOVAL
Prevents accumulation of biofilm and onset of related diseases
- Removing shallow subgingival biofilm in healthier patients at the gingival margin
- Removing biofilm in periodontal maintenance patients with deeper pockets*
- Can help reduce pocket depth and aid in periodontitis prevention

FOR IMPLANT MAINTENANCE
Helps prevent implant loss
- Cleaning implants regularly is a necessary step in the prevention of mucositis and peri-implantitis and therefore in preserving the implant.
- AIR-FLOW Therapy gently removes the biofilm on all of the implant components without causing damage.

FOR RESTORATIVE MAINTENANCE
Keeps restorations clean and intact
- Biofilm can accumulate on and around restorations.
- Studies show that sodium bicarbonate could cause damage to the restorations, while AIR-FLOW Therapy with glycine or erythritol preserves it while achieving optimal cleaning efficiency.

AIR-FLOW Therapy is so much more than a polishing device. Its versatility makes it the perfect enhancement to procedures that hygienists, dentists and specialists do every day.

HOW YOU CAN GET THE MOST OUT OF AIR-FLOW THERAPY

*Approved for use in pockets up to 5mm; 10mm in Canada

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With two working modes and two powder chambers designed to suit every clinical situation, the AIR-FLOW Master can be used for subgingival as well as supragingival prophylaxis. When operated in the AIR-FLOW mode, the AIR-FLOW Master delivers gentle kinetic energy without scratching the tooth surface in order to remove supragingival biofilm and stains. Perio mode with glycine powder is often effective supra and subgingival biofilm removal and is safe on root surfaces and gingival tissues.

**Features:**
- Automatic illumination of activated powder chamber for identification
- Easy handling, cleaning and refilling of the powder chambers
- Smooth touch panel surface for simple cleaning and disinfection
- Sleek user interface offers easy adjustment of power and water delivery
- Ergonomic handpiece for working comfort and precision for the clinician

**USE WITH:**
- AIR-FLOW Classic, Perio and Plus powders

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The AIR-FLOW and Piezon Technologies combine to deliver complete and effective prophylaxis treatment to your patients. The AIR-FLOW Master Piezon enables the practitioner to readily switch between standard and perio working modes. The AIR-FLOW Master Piezon can operate supra and subgingivally with both AIR-FLOW and PERIO-FLOW® handpieces and powder chambers included with the unit.

**USE WITH:**
- AIR-FLOW Classic powder (with AIR-FLOW handpiece and chamber) or
- AIR-FLOW Perio and Plus powders (with either handpiece and Perio/Plus chamber)

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**AIR-FLOW S1 | FT-177#HF/A/001**

- Removes dental plaque, soft deposits and surface stains from pits, grooves, interproximal spaces and smooth surfaces of the teeth
- Free-flow technology to prevent clogging of powder, air and water line
- 3 integrated self-cleaning filters for proper maintenance of the unit
- Incredibly light handpiece tubing allows for easier maneuvering of the handpiece while in use

**USE WITH:**
- AIR-FLOW Classic powder

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**AIR-FLOW 3.0 | FT-2208HF/A/001 (MIDWEST®)**

- Supragingival (with Classic powders) and shallow subgingival areas (with PLUS or PERIO powder)

**USE WITH:**
- AIR-FLOW Classic powder

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**AIR-FLOW handy 3.0 PREMIUM | FT-2258HF/A/001 (MIDWEST®)**

- Two-in-one functionality! Two handpiece attachments (PLUS and PERIO) allow for both supragingival and subgingival use (with PLUS or PERIO powder)

**USE WITH:**
- AIR-FLOW Classic powder

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**AIR-FLOW handy 3.0 | FT-188#HF/A/001**

- Lightweight device allows for optimal clinician comfort
- Sleek design to ensure easy vision of the treatment area
- Well-balanced for easy handling
- Connects to dental unit’s high-speed handpiece tubing

**USE WITH:**
- AIR-FLOW Classic powder

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**AIR-FLOW handy 3.0 PERIO | FT-2218HF/A/001 (MIDWEST®)**

- Site-specific subgingival areas (with PLUS or PERIO powder)

**USE WITH:**
- AIR-FLOW Classic powder
AIR-FLOW HANDPIECE | EL-308#HF/A

Based on free-flow technology, the AIR-FLOW handpiece features a 120° angle and is intended for supragingival use. The AIR-FLOW handpiece can also be used on the subgingival border area.

PERIO-FLOW HANDPIECE | EL-354#HF/A

Especially developed for subgingival applications, the PERIO-FLOW handpiece together with the PERIO-FLOW nozzle can be used in periodontal pockets up to 5 mm*. The PERIO-FLOW handpiece was innovatively designed to deliver the ultrafine AIR-FLOW PERIO and PLUS powders. Both handpieces are sterilizable.

AIR-FLOW ACCESSORIES & POWDERS

NOZZLE REFILLS:
DT-113HF (40 CT.)
DT-113HF/HF (160 CT.)

Lemon | DV-1001
Cherry | DV-1006
Neutral | DV-1009
Mint | DV-1010

AIR-FLOW PLUS POWDER
DV-117/A
AIR-FLOW PLUS powder is the first powder that is safe to use for supra- and subgingival biofilm removal but strong enough to efficiently remove light to moderate stain. The finest grain powder in dentistry, PLUS powder’s erythritol-based, minimally abrasive spray can be used on virtually every patient.

- Erythritol
- 14 µm
- 120g per bottle

AIR-FLOW PERIO POWDER
DV-110/A/H5
AIR-FLOW PERIO powder’s fine, low-density grains safely and completely remove harmful biofilm and bacteria both supragingivally and subgingivally. Made from glycine, an amino acid, PERIO powder is gentle on enamel and restorative surfaces, making the patient experience more comfortable.

- Glycine
- 25 µm
- 120g per bottle

AIR-FLOW CLASSIC POWDER
The Classic powder offers the well-known cleaning efficiency of sodium bicarbonate with increased patient comfort due to a smaller average grain size than standard sodium bicarbonate powders.

While the Classic powder is primarily used for supragingival removal of biofilm and colorations, it can also be used for surface preparation before dental treatments.

- Sodium Bicarbonate
- 40 µm
- 300g per bottle

AVAILABLE FLAVORS:
Lemon | DV-1001
Cherry | DV-1006
Neutral | DV-1009
Mint | DV-1010

*Up to 10 mm in Canada
WHAT CLINICIANS ARE SAYING ABOUT AIR-FLOW THERAPY

We are able to treat implant mucositis with AIR-FLOW Therapy without trauma to soft tissue and the implant surface itself. Patients accept it well. It is comfortable and is effective at removing biofilm around implant abutment margins.

DR. SAM LOW, DDS, M.ED, MS

Not all air-polishers on the market are designed to deliver the finer particle-sized powders like the AIR-FLOW series can. The smaller, particle size is desirable due to less potential to scratch surfaces and “sting” the patient. It’s a paradigm shift from cosmetic use to therapeutic use.

NANCY MILLER, RDH, BA

I use Plus powder (erythritol) for minimally-invasive biofilm removal on enamel, exposed dentin, inside deep periodontal pockets, on implants, around orthodontic bands, and on delicate restorative materials – everywhere! It is also effective on stain removal, saving me substantial time while protecting my patients’ teeth. No wonder my patients prefer this gentle treatment compared to traditional methods!

KAREN DAVIS, RDH, BSDH

For more information, visit HU-FRIEDY.COM/BIOFILM