

# Medical Microdermabrasion Systems

An important point a medical practitioner must realize is that there are no government organizations or agencies to control the designation of the type or classification of a microdermabrasion system or model. The manufacturers themselves label a system as medical or aesthetic. In some cases, a manufacturer will just put a different case or label on their aesthetic model, call it a "medical" system and they will charge thousands more.

When shopping for a medical microdermabrasion system, the medical practitioner must evaluate a system based on what type of treatment they will be performing on their patients. Unless they will be performing scar revision treatments, there may be no need for a medical level unit.

If the medical practitioner will be performing scar revision treatments, they must evaluate a microdermabrasion system much more extensively than just taking the manufacturer's word that the system is actually a "medical" unit. A scar revision treatment may involve fluids which also means there is an open wound. The medical system must have a filtering system capable of scrubbing viral molecules from the incoming air path. A sufficient filtering system must remove particles as small as .1 micron and preferably smaller. The Bella systems have multiple .01 micron HEPA filters. A simple test is; if the system cannot be exposed to humidity, it does not have a filter capable of stopping water or viral molecules.

Since there will be fluids involved, the system must also be able to handle it without clogging. Most system manufacturers require you to completely dry the skin before the treatment begins or the handset may clog. The Bella system can vacuum up a cup of water without effecting the system in the least! (Do not try that with any other system on the market because most will be damaged beyond repair; at a minimum they will have major clogging problems.) And, because there may be fluids involved, the resulting waste is a bio-hazard and should be treated as such. The waste container must be disposable so the operator is not exposed to the possible contaminants involved. Many systems on the market will have the operator dump the waste into a trash can, producing possible dust that can contaminate the surrounding area.

All Bella Systems utilize a disposable waste canister that seals in the waste material. Another thing to consider, although we are not saying this is legislature that is currently being considered, there may be a law passed that requires this material to be treated as bio-hazard waste and systems without the disposable waste containers may not qualify for medical facilities.

Scar revision treatments require higher power levels so the medical practitioner must completely evaluate the abrasion pattern produced by the handset. Many systems on the market will produce an abrasion pattern that is about the size of the head of a pin when the system is operated at higher levels of vacuum pressure. When the vacuum pressure is increased, the speed of the crystals and the air exiting the accelerator is increased (see System Shopping Information for explanations). This acceleration will concentrate the beam of abrasive particles, on many systems, into an area that is so small it can only cause damage and have little to no benefit in terms of the abrasion treatment. All Bella systems have the largest abrasion pattern in the industry, almost 3 times the size of the next largest competitor! Even at the highest setting, the Bella abrasion pattern is large and even.

These factors, in addition to the basic performance characteristics of a quality system, must be examined in detail before spending the extra money usually associated with a medical unit. The medical practitioner may be very surprised to find that most "medical" units do not even compare to the Bella Micro, which is our basic, lowest priced system.

Please review the section in this site titled Shopper's Guide to Purchasing a Microdermabrasion System for more detailed explanations of medical systems and other information.