

Also known as aesthetic cavitation, is a relatively new technique that applies a phenomenon known in physics to aesthetics. The ultrasonic cavitation, also known as aesthetic cavitation, is a relatively new technique that applies a phenomenon known in physics to aesthetics. This phenomenon is called cavitation and is a very smart way to reduce fat, because it is converted into liquid and then is naturally eliminated with urine. Nowadays the ultrasonic cavitation is considered as a treatment alternative to surgical liposuction as a non-invasive procedure with results obtained in short terms. The ultrasonic cavitation reduces fat cells with certain manipulation techniques, thanks to a hand piece that is placed on the skin precisely on the area that is to be treated. The machine works with ultrasounds that form bubbles in the tissues where the fat cells are located. The bubbles expand and are immediately compressed afterwards. The temperature increases due to sudden variation in pressure and the bubble implodes. This implosion damages the fat cells, reducing the localised adiposity. The fat contained (triglycerides) fragments into diglycerides that are expelled via the urinary system. When cavitation is followed by a lymphatic drainage treatment, the process is faster, as the drainage is very effective eliminating liquids. The low-frequency ultrasonic waves are useful in combating fat accumulations. It produces lipolysis of fatty acids from adipocytes (fat-laden cells) due to a phenomenon known as stable cavitation, and increased cell permeability of the adipocytes. Furthermore, there is a breakdown of the fibres through mechanical action. As a result, some content of adipocytes is eliminated by the metabolism. Lipofirm PLUS works with four different operative modes which can be adjusted according to the imperfection to be treated; it is the only cavitation device in the aesthetic market that utilises the so-called "adaptive" mode, which is an emission mode that automatically adjusts frequency emission relative to the tissue characteristics - this is undoubtedly considered as an outstanding effect which boosts treatment efficacy.