

CellSufflator – design considerations

Making carboxytherapy safe.

CellSufflator injects medical quality carbon dioxide into the body. The procedure sounds simple which it is providing everything is done correctly. However, there are many opportunities for mistakes so we here discuss those dangers so that they can be avoided.

The gas must be medical quality. Under no circumstances must ordinary carbon dioxide such as may be used to carbonate drinks be put into the body.

The gas will be placed just under the skin by carefully placed needles and in those places the chances of infection are greater than they can be deeper in the body. CellSonic supplies sterile needles and tube sets and only these should be used. The machine will purge its own tubes to eject any lurking contaminants.

The gas in the bottle is at very high pressure and as it emerges it freezes. This means that the CellSufflator has to be certain to control the high pressure. A failure could convert the needle into a dart. If we were to miniaturise the valves, the risk of mechanical failure would increase. CellSufflator is a very safe system.

We have been making pressure control valves for many years and when used in the sister machine, Insufflator, for laparoscopy we recommend a gas warmer to prevent freezing gas hitting the inside of the patient. In CellSufflator the volume flow of gas is much reduced and the tubes are deliberately long thus allowing time for the gas temperature to rise. If the machine was smaller and tubes shorter the gas entering the skin would be freezing.

The operator must have medical qualifications. Do not let an untrained person inject the gas. The skill lies in knowing at what angle to inject the needle, to what depth and for how long to let the gas penetrate. Dexterity and knowledge are required. Many operators train on the carcass of a de-frosted, plucked chicken.

CellSufflator is one of the most effective means of removing fat, cellulite, stretch marks and wrinkles. Use it sensibly and your reputation will rise amongst appreciative clients.

CellSufflator set up

Please ensure that the gas at the inlet has a pressure in between 2 and 4 kg/cm². Try and run the machine at the factory settings i.e. 130mmHg by connecting a tube and a needle to the outlet. You may check that the gas is delivered through a needle by dipping the needle into a glass of water.