



# ULTRA HIGH PRESSURE TREATMENT, CLEAN, NO HEAT OR CHEMICALS = FRESHNESS & QUALITY

Ultra high pressure processing(HPP) is a non thermal treatment to induce the reduction of microbic count and pathogens inside foods as smoothies, fresh juices, purees ...

## DESCRIPTION

HPP operates up to 6000 bar pressures, equivalent to weight of 7200 water cases stacked on top of an apple (meaning 3 times over the highest building on earth)-

The process involves surrounding homogeneously with pressurized water the product in its final container (ex plastic bottle, plastic envelope, tetrapak). There aren't resulting tear forces so packaging and content are not damaged but gently pressed on all sides. It is based on simple physics: product is already packed in its final sealed packaging, the container is then stacked inside a special tray that is then put inside the high pressure tank. The tank is filled with drinking water that is then brought to 6000 bar pressure. Pressure is transferred from water to package and product and in an average of 180 sec. high pressure damages cellular membranes of bacteria and pathogens inactivating germs and increasing shelf life. Parameters as water quality, PH, fats & hydrocarbons can impact on results. After pressure is released containers are downloaded from trays and labelled for delivery. Also process water is further tested, filtered, chilled and reused.



## ADVANTAGES :

**HYGIENIC:** Product is already packed. Be it a bottle, a container or a PE PET envelope. Product is processed after sealing NO CONTAMINATION

**CLEAN:** Process is based on pure physics, no chemicals involved. No additive means PURE PRISTINE TASTE. The process follows green and organic philosophy.

**SAFE:** Every cell undergoes 6000 bar uniform pressurization reaching the product's core

**COOL:** HPP is a non thermal process. Therefore TASTE, NUTRIENTS & TEXTURE are the same as in a freshly made products.

**EFFICIENT:** HPP process is an efficient way to increase product durability without chemicals. Looking to delay the investment on the technology? Have us process your product for you in our technology center in Germany We can process and ship back the finished product to you or to your distribution center.



Uhde High Pressure HPP in Germany

