

## Equipment

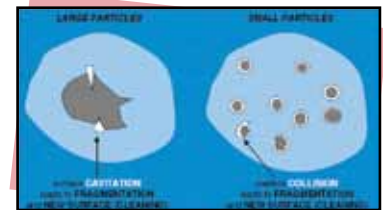
### Hydrodynamic nano cavitation unit

Dispersion and homogenization of nano particles in liquid media and also producing liquid nano emulsion is the state of the art in nanotechnology. PNF Co. has developed a new production in liquid media using high pressure and a specific geometry of orifice. These nano cavities are the effective agent of dispersion. Nano colloids and also nano emulsions of two immiscible liquids can be produced in lab to industrial scales. Thus, using this technique, introduction of nanotechnology into different industries will be carried out more easily.



### Applications:

1. Fuel nano emulsions (Fuel+ Water): to make fuel saving
2. Nano particle dispersion in liquid media
3. Cold pasteurization of food (milk): cost effective milk pasteurization
4. Cold effective petroleum cracking
5. Edible oil filtration
6. Liquid-liquid nano emulsion in pharmaceutical industries



### Technical specifications

Model	HC-L	HC-P	HC-I
Capacity	150 liter/h	3 t/h	15 t/h
Operation pressure	6-35 atm	6-12 atm	6-12 atm
Power	2 kw	10 kw	25 kw
Dimensions	150*100*110cm	200*100*120cm	350*150*90cm