

Euler's Technology for Cooling of Fluid

(尤拉降溫技術)

(Mechanism for cooling down of fluid using EDM II technologies)

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Inventor: Euler Cheung

Background/Development of Idea:

Could EDM II technique be applied in the realm of cooling in fluid like water and gas? How?

Summary & Discussion:

The process starts with pumping heated fluid into a tube separated by a non-elastic material to at least two compartments. As thermal energy often expresses itself in the kinetic energy of the molecules of the fluid, the molecules from two sides are constantly bombarding the two sides of separator. Since the leftward momentum of the molecules from the right compartment are canceled by the rightward momentum of the molecules from the left compartment. A part of the thermal-kinetic energy is thus dissipated by canceling the effect of each other as stated in EDM II, thus leading to lowering of thermal energy content of the fluid. Thereby a gradual cool down effect is achieved. And the fluid is pumped out of the output with lower temperature.

It is not necessary that we have only two compartments canceling the effect of each other. We could have however any number of compartments separated by inelastic separator. The same process discussed in above happens in all the separators between two neighboring compartments, thus leading to a gradual cool down of the fluid when it is passing through the 'Equalizing Tube'.

Generically speaking, the rate of cooling down is proportional to the number of neighboring compartments. The rate of cooling could also be controlled by the length of tube that the fluid passes through. A control mechanism could control the rate of dissipation of thermal energy by determining the route of the fluid passing through, and the length of each route.

Claim: The system in its entirety with at least all its essential components each for the purpose stated above and together as a whole for the purpose of cooling down fluid without generating waste heat as a by-product.

Related Claims:

Applications:

Refrigerator

Air-conditioner

Advantages:

1. Low energy expenditure.

Technicalities:

1. Time required maybe longer.