CLAIMS

1. A system for producing heat transfer between two or more media, for household, commercial or industrial use, wherein the system is usable for air conditioning a space, the system comprising:

- a confined pipeline circuit, wherein the confined pipeline circuit comprises pipes (8) in order for forming the confined pipeline circuit, wherein the confined pipeline circuit is closed at one of its ends, wherein some of the pipes (8) are pipes with plates or fins, wherein the pipes (8) form a heat exchanger (34),
- one or more forcing units connected to the confined pipeline circuit and capable of increasing or decreasing the pressure of a fluid in said confined pipeline circuit,
- a control system (11), configured to control the forcing unit for controlling the pressure and a contraction of the fluid in the confined pipeline circuit in such a way as to induce the change of state of the fluid from the liquid state or supercritical fluid state to the solid or partially solid state and vice versa,
- one or more pressure and temperature sensors of the confined loop, configured to supply information to the control system.

2. The system according to claim 1, wherein the one or more forcing units comprises a device capable of increasing or decreasing the pressure of the fluid, wherein said device is a plunger, a piston, and a pump for moving the device.

3. The system for producing heat transfer according to Claim 1, wherein the pipes (8) are capillary tubes.

4. Use of a system according to any of the preceding claims for producing heat transfer between two or more media, for household, commercial or industrial use.

5. A method for producing heat transfer in between two or more media,

for household, commercial or industrial use, wherein the method is used for air conditioning a space, the method comprising:

a) introducing a fluid into a confined pipeline circuit connected to one or more forcing units, wherein the confined pipeline circuit comprises pipes (8) in order for forming the confined pipeline circuit, wherein the confined pipeline circuit is closed at one of its ends, wherein some of the pipes (8) are pipes with plates or fins, wherein the pipes (8) form a heat exchanger (34),

b) compressing a fluid in said confined pipeline circuit by means of the one or more forcing units,

c) controlling the forcing unit with a control system for controlling the pressure and a contraction of the fluid in the confined pipeline circuit in such a way as to induce change of state of the fluid, from liquid state or supercritical fluid state to the solid or partially solid state or vice versa,

d) decompressing the fluid in said confined pipeline circuit in order to re-induce the change of state.