

This schematic diagram illustrates a hydronic heating system with the following components and connections:

- 1. Heat Pump:** Located on the left, it has two fans and a connection to a vertical riser pipe.
- 2. Boiler:** A central unit with a black heating element and a control box on top. It is connected to the riser pipe and the radiator loop.
- 3. Riser Pipe:** A vertical pipe with break symbols at the top and bottom, connecting the heat pump to the boiler.
- 4. Thermostat (TR):** A control device connected to the boiler and the radiator loop.
- 5. Radiator (TW):** A wall-mounted radiator with a thermostat valve (TV) and a pressure gauge (M). It is connected to the boiler and the radiator loop.
- 6. Radiator (TC):** A floor-mounted radiator with a thermostat valve (TV) and a pressure gauge (M). It is connected to the boiler and the radiator loop.
- 7. Distribution Pipes:** A network of pipes at the bottom connecting the radiators to the boiler and the heat pump.
- 8. Return Pipes:** Pipes that return the fluid from the radiators to the boiler and the heat pump.

The system uses a combination of red and blue lines to represent the flow of the heating medium. The heat pump and boiler are connected to the riser pipe, which then branches out to the radiators. The radiators are connected to the distribution pipes, which then return the fluid to the boiler and the heat pump. The system includes various control devices such as thermostats (TR, TV), pressure gauges (M), and valves (R, CS, FY, RG, D, C).

1	Unitate externa HPS / External HPS unity
2	Unitate interna HPS / Internal HPS unity
3	Tevi cupru conectare unitate exterioara - unitate interioara / Copper pipes connecting outdoor unit - indoor unit
4	Cabluri electrice alimentare si comunicaie / Electric power and communication cables
5	Boiler
6	Puffer / Buffer
7	Tur/retur instalatie incalzire / To and from heating installation
8	Tur/retur apa calda de consum / To and from domestic hot water
VE	Vas de expansiune / Expansion tank
CS	Clapeta de sens / Check valve
RG	Robinet de golire / Drain valve
RA	Robinet de aerisire / Vent valve
R	Robinet de inchidere/sectorizare / Shut-off/Sectoring valve
FY	Filtru Y / Y filter
M	Manometru / Manometer
TC	Senzor citire temperatura apa puffer / Buffer water temperature reading sensor
TW	Senzor citire temperatura apa boiler / Boiler water temperature reading sensor
TR	Senzor temperatura ambient / Room temperature sensor
TV	Senzor citire temperatura instalatie incalzire / Heating system temperature reading sensor



Asocierea S.C. ISPCF S.A. - S.C. BAICONS IMPEX SRL

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F.S.

Scara / Scale

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