

Buffer Tanks and floor standing
boilersfor life

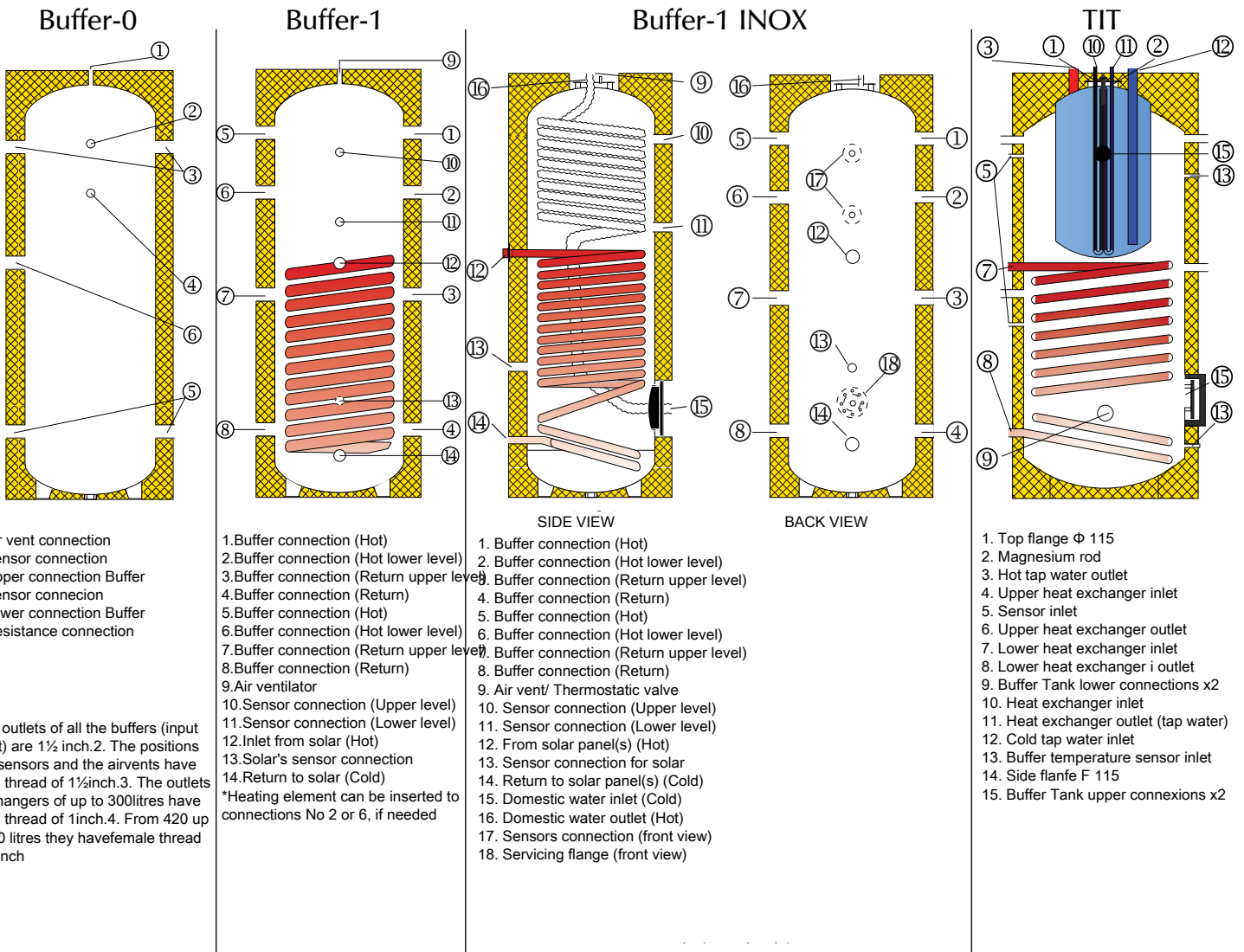
Des réservoirs tampons et des
ballons posés au sol
.....pour toute une vie



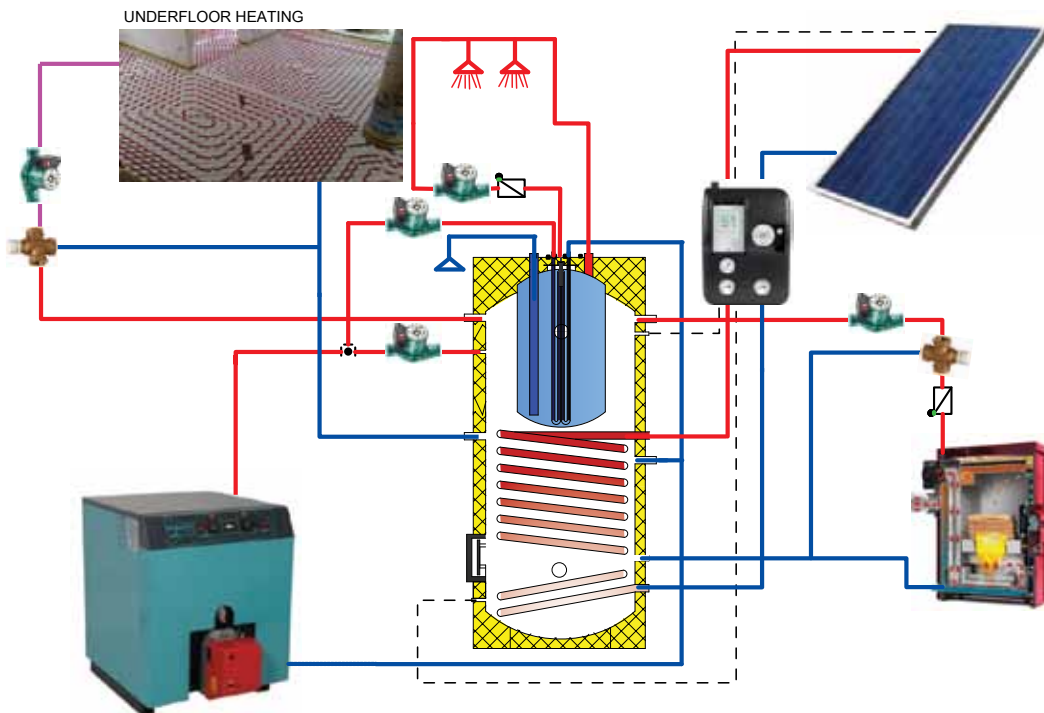
Δοχεία Αδρανείας &
Μπόιλερ
λεβητοστασίου
...μια για πάντα



BUFFER TANKS FOR GREAT ECONOMY



Typical TIT (Tank in Tank) installation for connection with solar energy and two oil or gas/solid fuel boilers



IN HEATING AND HOT WATER

What exactly is a Buffer Tank and why is it used
 Buffer Tanks are actually tanks (an extra space) where water (hot or cold) is stored.

Hot water storage or hot water for house heating storage (radiators or underfloor heating systems)

The Buffer Tank is connected in series to the boiler (oil or gas boiler, wood fired boiler, pellet boiler, biomass boiler, heat pump) or to the solar collectors.

This tank is very well thermally insulated and therefore hot water can be kept for very long intervals. The purpose of this Buffer Tank is to store hot water after its generation from any type of boiler, heat pump (or solar collector). It is thus able to provide us with hot water when the boiler or the heat pump are no longer active or when the sun sets and the solar collector can consequently no longer supply us with hot water. Keeping our place warm. While the boiler or the heat pump is active, hot water is being stored to the Buffer Tank. When the boiler or the heat pump ceases its operation, the circulator will then start transferring to the radiators or to the underfloor heating systems the hot water that has been stored to the Buffer Tank, providing us thus with free heating for several more hours.

The above method helps us save energy and consequently money as Buffer Tank's hot water (BUFFER-0) is used and as there is no need to constantly operate the boiler or the heat pump in order for the hot water to be circulated to the radiators or to the underfloor heating system.

The same applies for the hot water of general use, provided that the Buffer Tank (BUFFER-1) is connected to the solar collectors and that it falls under the category of Tank in Tank or Buffer Tank with stainless steel exchanger (BUFFER-1 INOX).

Furthermore, when it comes to heat generated by electricity (heat pump, resistances, electric boilers), the Buffer Tank may store energy during night-time when electricity rates offered by PPC are cheaper.

Cold water storage

Buffer Tanks store cold water, using the same method as the above mentioned. The main difference is that in this case they are connected to water coolers instead of boilers or solar collectors.

With this method energy and money are also saved, as the circulator continues transferring cold water from the Buffer Tank, despite the fact that the motor of the cooling machine is no longer active.

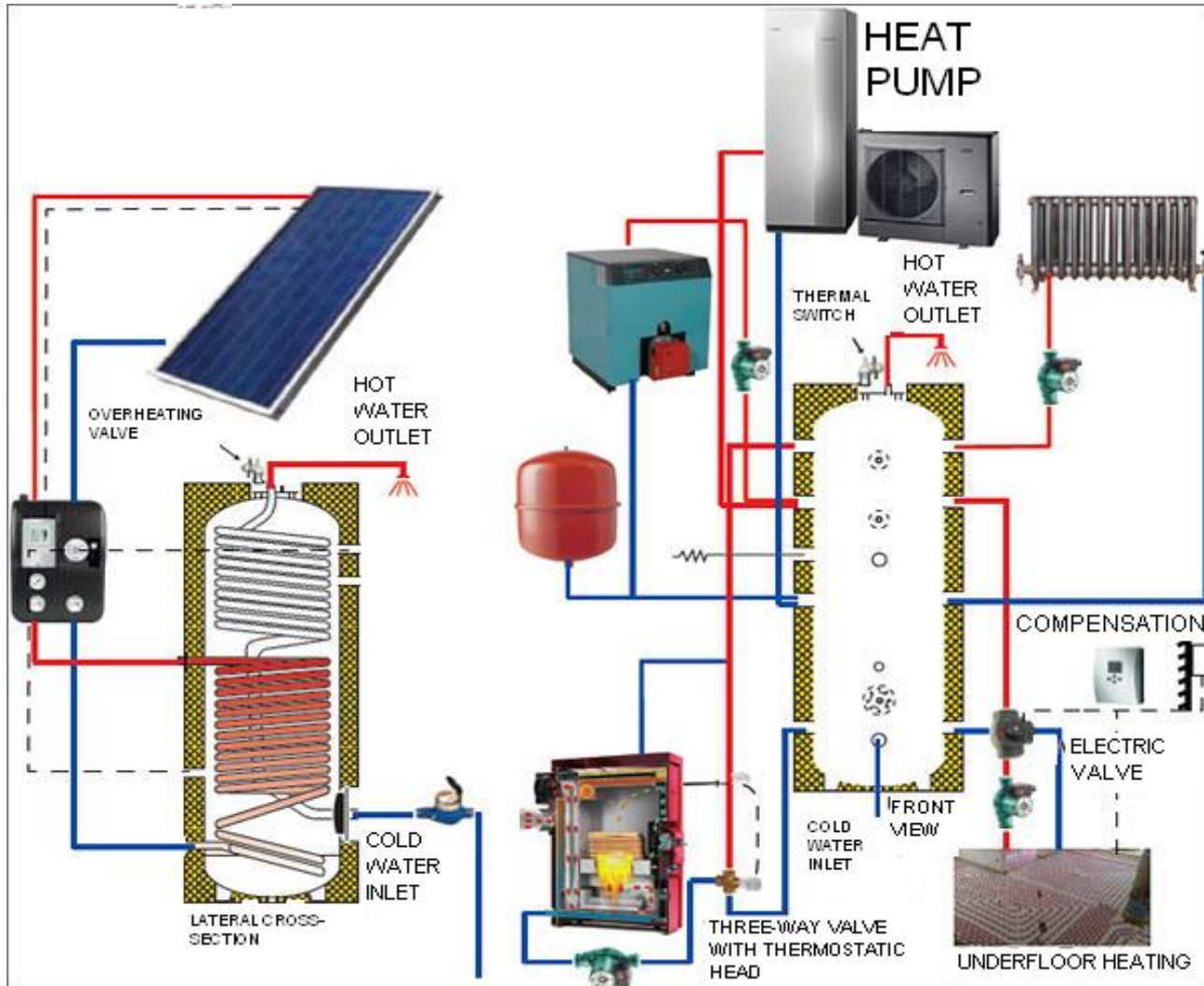
Buffer Tanks dispose many "imports-exports" (1" & 1½") and can therefore be connected to several types of heating sources (oil or gas boilers, wood fired boilers (pyrolysis boiler), pellet boilers, ion electric boilers, heat pumps, energy fireplaces, solar collectors).

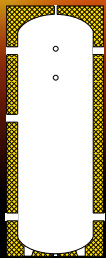
AVAILABLE IN:

BUFFER 0: 150, 200, 300, 420, 500, 800, 1000
 BUFFER-1: 300, 420, 500, 800, 1000
 BUFFER-1 INOX: 300, 500, 800, 1000
 TIT (tank in tank): 800, 1000

Typical Installation of BUFFER-1 with INOX hot water exchanger

for connection with solid fuel boiler, oil or gas boiler, heating pump, high temperature heating system (radiators), low temperature heating systems (underfloor heating system) and with solar assisted systems

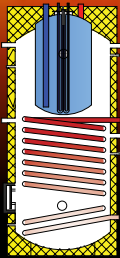




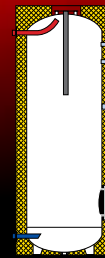
Buffer-0



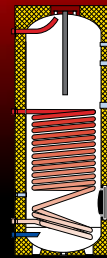
Buffer-1



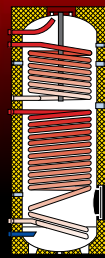
TIT



BL0



BL1



BL2

