SYSTEM WATER CHARACTERISTICS

Free chlorine or water hardness may damage the appliance. Adhere to the chemical-physical parameters in Table 1.1 p. 1 and the regulations on water treatment for residential and industrial heating systems.

Table 1.1 Chemical and physical parameters of water

CHEMICAL AND PHYSICAL PARAMETERS OF WATER IN HEATING/COOLING SYSTEMS		
PARAMETER	UNIT OF MEASUREMENT	ALLOWABLE RANGE
рН	/	> 7 (1)
Chlorides	mg/l	< 125 (2)
Total hardness (CaCO ₃)	°f	< 15
	°d	< 8.4
Iron	mg/kg	< 0,5 (3)
Copper	mg/kg	< 0,1 (3)
Aluminium	mg/l	< 1
Langelier's index	/	0-0,4
HARMFUL SUBSTANCES		
Free chlorine	mg/l	< 0,2 (3)
Fluorides	mg/l	< 1
Sulphides		ABSENT

- with aluminium or light alloys radiators, pH must also be lower than 8 (in compliance with applicable rules) value referred to the maximum water temperature of 80 $^{\circ}\mathrm{C}$
- in compliance with applicable rules

CHOICE OF TREATMENT 2

The features of the plant water must be as detailed in the 1 p. 1 section.

The choice of a possible chemical conditioning system or the addition of plant water additives is subject to the designer, depending on the quality of water detected by qualified personnel. It must always be verified (through the technical office of the company producing the additive) that adding it to the plant water does not cause any such alterations to come out of the required parameters.

3 WATER TOPPING UP

The chemical-physical properties of the system's water may alter over time, resulting in poor operation or excessive topping up.

- ► Ensure there are no leaks in the installation.
- Periodically check the chemical-physical parameters of the water, particularly in case of automatic topping up.



Chemical conditioning and washing

Water treatment/conditioning or system washing carried out carelessly may result in risks for the appliance, the system, the environment and health.

- Contact specialised firms or professionals for water treatment or system washing.
- Check compatibility of treatment or washing products with operating conditions.
- Do not use aggressive substances for stainless steel or copper.
- Do not leave washing residues.