B Water quality

RECOMMENDED WATER QUALITY

Pressure (reccomended)	1,5 - 3 bar (150 - 300kPa)
PH	7.0 - 8.5
TDS	40 - 150 mg/L (ppm)
Hardness (CaCO3)	3°f - 9°f (30 - 90ppm; 1,5-5°d)
Langelier Index	> 0,5

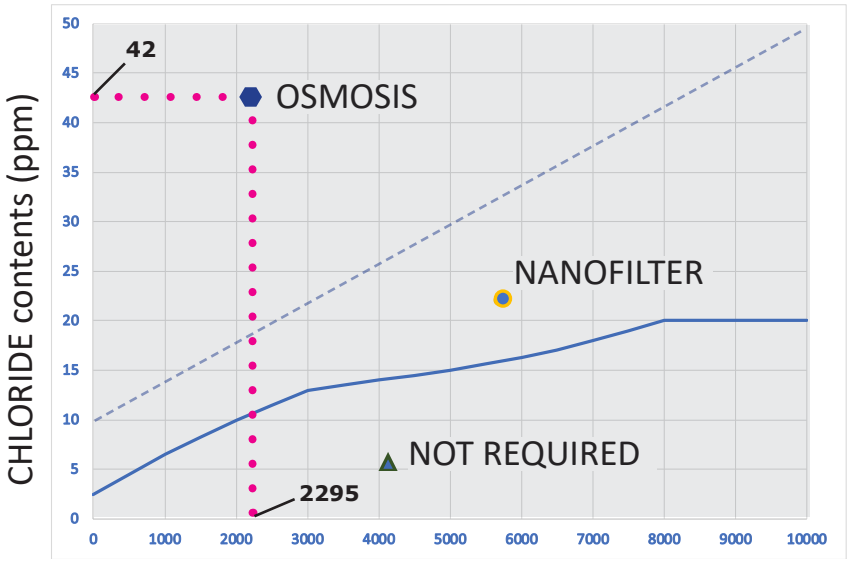
Contents of salts and metal ions

Chlorides	< 20 mg/L (ppm)
Sulfates + Nitrates	< 20 mg/L
Free chlorine	< 0.1 mg/L
Chloramines	< 0.5 mg/L
Iron	< 0,1 mg/L
Silica	< 10 mg/L

PLEASE NOTE as a standard condition: if TDS < 1000ppm then ---> EC = TDS x 2

if TDS > 1000 ppm then ---> EC = TDS x 1,1

Check the ratio between 'Chloride' and+ 'PH x conductivity'



$EC(\mu S) = TDS(ppm)\ x2$

Example:

PH	7.5
TDS	153 mg/L(ppm)
EC	153 x 2
Chlorides	**42** mg/L (ppm)

PH x EC = 7.5 x 306 = 2295

With the above graph you'll be able to understand if the water quality is suitable in order to prevent corrosion or if a water specific treatment is needed

Here below a chart to use in order to better calibrate the right water treatment:

Result of graph	Not required	Not required	Nanofilter	Nanofilter	Osmosis	Osmosis
Hardness	< 90ppm	> 90ppm	< 90ppm	>90ppm	< 90ppm	> 90ppm
Water treatment to install	Not required	Softener	Nanofilter	Nanofilter	Osmosis	Osmosis