

# Water Treatment Selection Guidelines

## STEP 1 – Understand the basic water characteristics of your water

Compare water quality at your location to the **Convotherm Water Quality Requirements** listed here.

- Contact your water company for information about the quality of your water.
- Convotherm can provide a complete water analysis through an independent laboratory

### WATER QUALITY REQUIREMENTS

WATER QUALITY REQUIREMENTS	CONVOTHERM COMBI'S (BOILERLESS)	WATER QUALITY REQUIREMENTS	CONVOTHERM COMBI'S (GENERATORS)
TDS:	50 - 150 ppm	TDS:	50 - 360 ppm
Hardness:	70 - 125 ppm (4 - 7.3 gpg)	Hardness:	70 - 360 ppm (4 - 21 gpg)
pH value:	6.5 - 8.5	pH value:	6.5 - 8.5
CL (Chloride):	max 50 ppm	CL (Chloride):	max 50 ppm
Fe (Iron)	max 0.1 ppm	Fe (Iron)	max 0.1 ppm
SiO <sub>2</sub> (silica):	max 13 ppm	SiO <sub>2</sub> (silica):	max 13 ppm
Cl <sub>2</sub> (free chlorine):	max 0.1 ppm	Cl <sub>2</sub> (free chlorine):	max 0.1 ppm
NH <sub>2</sub> Cl (monochloramine):	max 0.1 ppm	NH <sub>2</sub> Cl (monochloramine):	max 0.1 ppm

## STEP 2 - Selecting the right system for your equipment

- Determine if your water meets or does not meet Convotherm water quality requirements and select the right system for your applications.

CONVOTHERM C4 ES/GS (BOILERLESS)	WATER QUALITY	
	MEETS STANDARD	DOES NOT MEET STANDARD
6.10	QT1+CR	OP70CR/2
6.20	QT1+CR	OPS175/5
10.10	QT1+CR	OPS175/5
10.20	QT1+CR	OPS175/5
12.20	QT1+CR	OPS175/5
20.10	QT1+CR	OPS175/5
20.20	QT1+CR	OPS175/10
Stacked Ovens	QT1+CR ea.	OP175/16
<b>MINI COMBI</b>		
6.10 Mini	QT11-CR	OP70CR/2
10.10 Mini	QT11-CR	OP70CR/2

CONVOTHERM C4 GB/EB (GENERATORS)	WATER QUALITY		
	MEETS STANDARD		DOES NOT MEET STANDARD
	ALL APPLICATIONS	HARDNESS ABOVE 170 PPM, pH IS BELOW 8.5	ALL APPLICATIONS
6.10	QT11-CR	QTSX2-PG	OP70CR/10
6.20	QT11-CR	QTSX2-PG	OPS175CR/10
10.10	QT11-CR	QTSX2-PG	OPS175CR/10
10.20	QT11-CR	QTSX2-PG	OPS175CR/16
12.20	QT11-CR	QTSX2-PG	OPS175CR/16
20.10	QT11-CR	QTSX2-PG	OPS175CR/16
20.20	QT11-CR	QTSX2-PG	OPS175CR/16
Stacked Ovens	QT11-CR ea.	QTSX2-PG ea.	OP175/50

**Optipure OP Series systems utilize reverse osmosis (RO) to remove total dissolved solids (TDS) from water, including chlorides and hardness mineral. Then balance of minerals is introduced into the pure water to provide desirable "Optimized" water with a stable, non-aggressive nature that can significantly reduce water-related equipment problems including corrosion and scale.**

**Optipure QT1+CR recommended for boilerless Convotherm combi ovens reduces chlorine/chloramines and takes out sediment down to ½ micron.**

**Optipure QT11-CR recommended for Convotherm combi ovens with steam generators reduces chlorine/chloramines and takes out sediment down to ½ micro and includes IsoNet™ scale inhibitor.**

**Optipure QTSX2-PG recommended for use with steam generators reduces chlorine and takes out sediment down to ½ micron. ScaleX2 uses "template assisted crystallization" to effectively minimize scale formation at high hardness levels.**

Water Quality Test Kit Part  
No: 1150360 List Price \$100.00