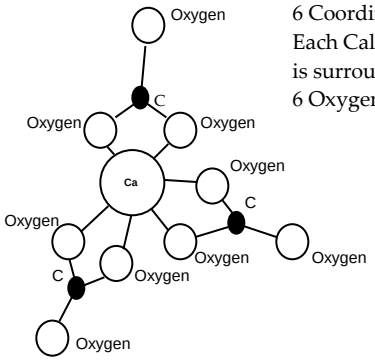
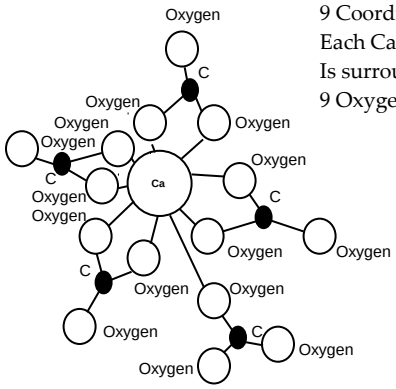
How KDF Addresses Lime/Scale

Simplified Structures
of
CALCITE & ARAGONITE
As seen throught a microscope.

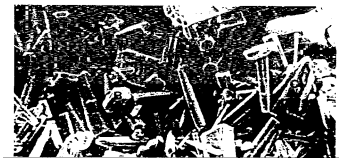


6 Coordination
Each Calcium
is surrounded by
6 Oxygens Hexagonal



9 Coordination
Each Calcium
Is surrounded by
9 Oxygens Hexagonal

CALCITE



Before

A microscopic slide of lime/scale
in water before it passes through
an X10 water filter.

ARAGONITE

After

A microscopic slide of lime/scale
in water after it passes through
an X10 water filter.

KDF media alters the molecular structure of Calcite by changing the number of oxygen atoms within the molecule. Because of this molecular change, Calcite then becomes a substance called Aragonite which has no clinging capability.

This alteration causes the lime/scale to remain harmlessly suspended in the water as it passes through the equipment holding tanks and water lines without adhering to equipment surfaces. The end result is; less money spent on chemicals and less time spent on cleaning. Most important is the reduction in equipment down time while waiting to be repaired.