



Commercial Restaurant Water Treatment



3 Major Concerns for Water Treatment

1. Scale is caused by hard water. Hard water contains dissolved calcium and magnesium. Scaling can occur with temporary hardness and permanent hardness.

❖ Temporary Hardness, or Carbonate Hardness, is composed of the carbonate and bicarbonate ions of Ca and Mg. The carbonates will deposit on hot surfaces.

Examples: CaCO_3 , MgCO_3 , $\text{Ca}(\text{HCO}_3)_2$, $\text{Mg}(\text{HCO}_3)_2$

❖ Permanent Hardness, or Non-Carbonate, is hardness in the presence of dissolved Ca & Mg -> sulfates, silicates, nitrates, chlorides, and phosphates – Removed by softening, demineralization, RO

Examples: CaCl_2 , $\text{Mg}(\text{NO}_3)_2$, Ca_2SiO_4 , MgSO_4

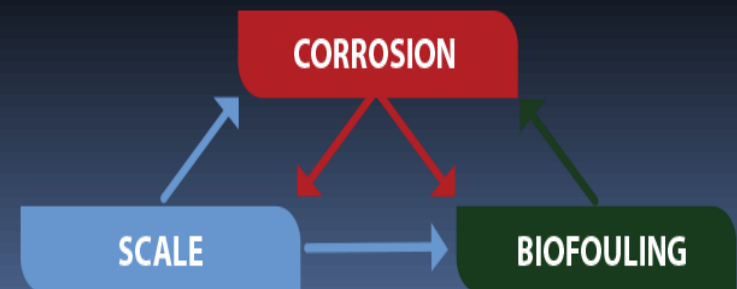
Classification	Hardness (PPM)	Hardness (GPG)
Soft	0–60	0–3.50
Moderately hard	61–120	3.56–7.01
Hard	121–180	7.06–10.51
Very hard	≥ 181	≥ 10.57

3 Major Concerns for Water Treatment

2. Corrosion is the gradual decomposition or destruction of a material by oxidation or chemical actions, often due to an electrochemical reaction. Corrosion starts at the surface of a material and moves inward. Corrosion of iron or steel is commonly called rusting.
3. Biofouling is the gradual accumulation of waterborne organisms (such as bacteria and protozoa) on the surfaces of equipment in water that contributes to corrosion of the equipment

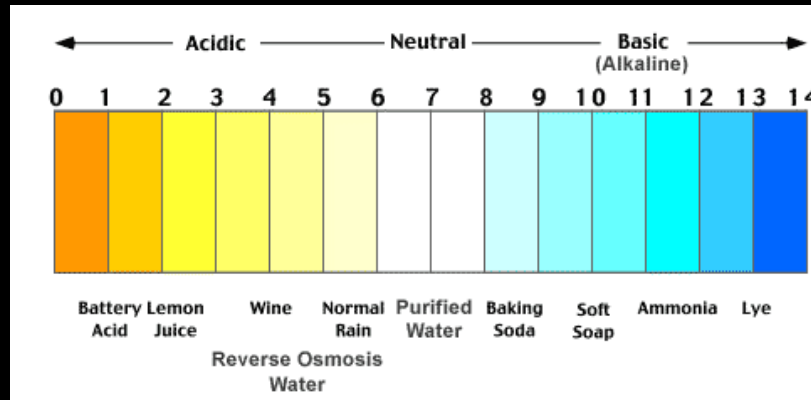
Causes of corrosion and scale

Corrosion	Scale
Low pH > 6.9	High pH > 8.5
Softwater (NaHCO ₃)	Ca(HCO ₃) ₂
Low alkalinity	High Alkalinity
Permanent Hardness	



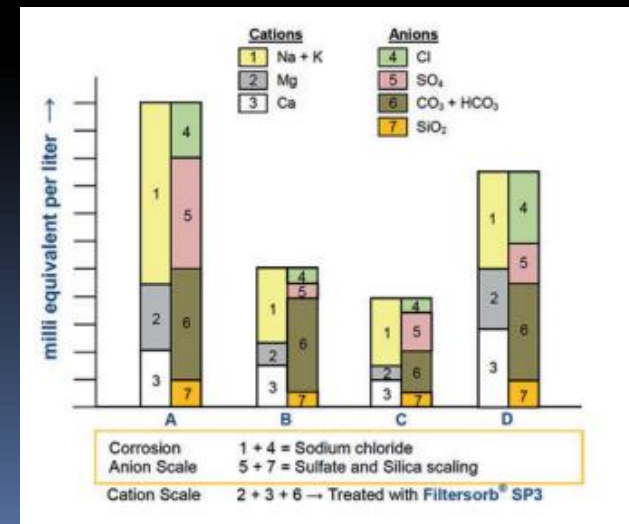
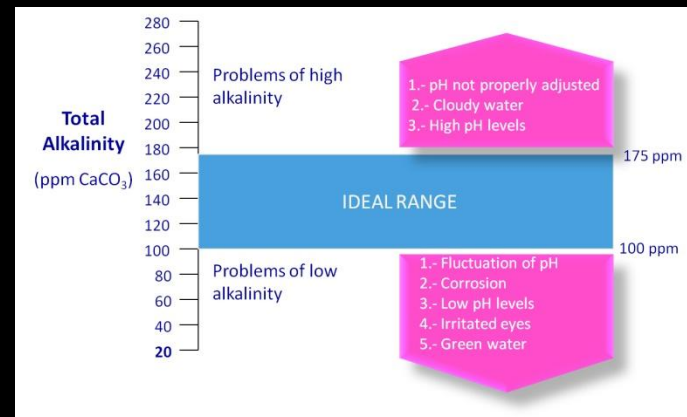
Causes of Scale

- High Alkalinity
- High pH
- Calcium
- Phosphates
- Silica
- Sulfates
- Chloride



Causes of Corrosion

- Acidity (low pH)
- High mineral concentrations
- Chlorides
- Soft Water
- RO water
- Sulfates
- Nitrates
- Chlorine
- Chloramines
- Hydrogen Sulfide
- Stray current electrolysis
- Galvanic corrosion caused by dissimilar metals
- Dissolved oxygen content
- Water temperatures
- Biofouling



Water Treatment Technologies and purpose

- Activated Carbon - Reduces chlorine, organics, and tastes & odors
- Catalytic Carbon - Reduces chlorine and chloramines from water, organics.
 - Carbon improves taste and odor
 - Contact time with carbon is important. The longer the water is in contact with carbon the better the removal of containments
- Sediment Filtration - Removes solids from the water. The smaller the number (microns) the better the filtration
- Ion exchange (cationic for water softening) - Removes Ca & Mg from water and replaces with sodium or hydrogen ions. Prevents temporary hardness.
- Polyphosphates - Scale inhibitor for temporary hardness (limescale, calcium bicarbonate). Sequesters (binds) to calcium and other hardness ions - good up to 10 grains hardness. Not recommend when water is over 150° F
- Reverse Osmosis - Water purification process through a partially permeable membrane to separate ions, unwanted molecules, and larger particles from drinking water.

Traditional Approach to Hard Water Phosphates

- Not effective when water is over 10 grains
(1 grain hardness = 17.1 mg/L Total Calcium Carbonate Hardness)
- Increased bacterial growth in plumbing and equipment
- Less effective over time; reverts from poly to orthophosphates
- May give water a metallic taste under certain conditions.
- Always being released in cartridges. When equipment is not being used, the phosphates will release at an initial higher concentration upon water demand, thus impacting beverage quality.
- “Corrosion inhibitor” means permanent scale.
- Starts to breakdown in water temperatures above 150 degrees
- Ruins carbonation in soda

3M Website

Polyphosphate treatment works best for soft to moderately hard water applications such as for ice or coffee but becomes less effective in very hard water areas and for applications such as Espresso or Steam where other technologies such as ion exchange or reverse osmosis will be required.

Traditional Approach to Hard Water

Ion Exchange

- Exchanging Calcium and Magnesium ions for sodium and Hydrogen ions
- Soft water is corrosive water
- Bypass needed for taste and corrosion control
- Capacity and Size
- Expensive and environmental issues
- Adds .79 ppm of CO₂ for each ppm of sodium bicarbonate.
- Steam is condensed, carbon dioxide lowers pH and Increases hydrogen ion concentration

[Rational Installation Book pg 18](#)

- Water treatment:
- Treated water with a water hardness less than 5 gr/gal must not be supplied, because such water can react aggressive and corrosive which can reduce the life cycle of the unit.

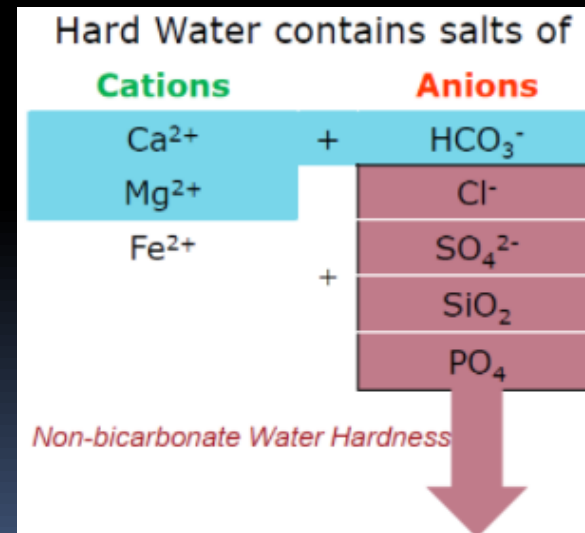
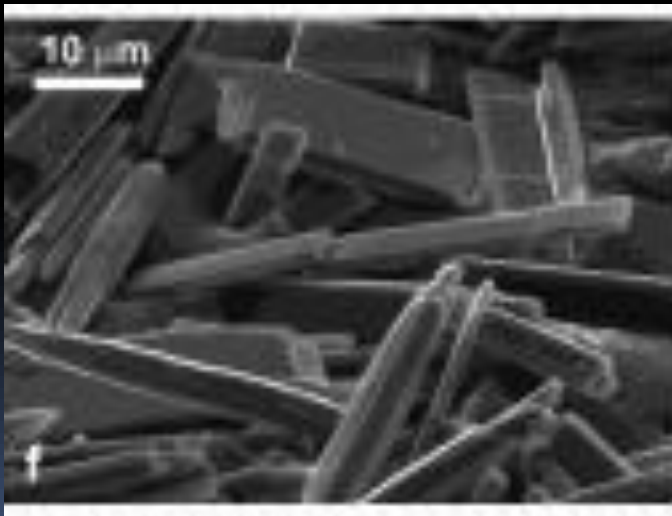
Water Hardness Scale		
Grains/Gal	mg/L & ppm	Classification
Less than 1	Less than 17.1	Soft
1 – 3.5	17.1 - 60	Slightly Hard
3.5 - 7	60 - 120	Moderately Hard
7 - 10	120 - 180	Hard
Over 10	Over 180	Very Hard

Reverse Osmosis

- Space: Need an area to accommodate storage tank, pretreatment(Sediment and Carbon)
- Time: Long process to produce 1 usable gallon
- Waste: Use 2-3 gallons of water to make (1) gallon of RO water
- “Aggressive water” means corrosive water. Post filter needed to raise pH.
- TDS: Some level is needed for the equipment to function properly

21st Century Approach to Hard Water Nucleation Assisted Crystallization

- NAC (Nucleation Assisted Crystallization) is the transformation of Calcium and Magnesium hardness into non-soluble micro crystals.
- Example of NAC-Instant Ice! (Super-cooled water nucleation) – YouTube





Benefits of NAC

1. Descaling
2. Prevents scaling
3. Biocides
4. No TDS Change
5. pH NEUTRAL
6. No tradeoffs
7. Green Technology

NAC applications



Water Problems and Treatments

Contaminants	Media Used	Model	Bed Vol/hr
Acidic Water	Trappsorb	TRS	10
Ammonia	Trappsorb/ZS	TRS	10
Arsenic	Titansorb/FL/KL	TS	25/20/15
Barium	Trappsorb	TRS	10
Cadmium	Ferrox	FL	20
Chlorine	Catalytic Carbon	CC	30
Chloramine	Catalytic Carbon	CC	30
Colour	Catalytic Carbon	CC	20
Chromium	Ferrox	FL	20
Copper	Ferrox/CC	FL/CC	20/10
Fluoride	Catalytic Carbon/TRS	CC/TRS	20/10
Iron	Katalox-Light	KL	20
Hydrogen Sulfide	Katalox-Light	KL	20
Bacteria & Virus	Katalox-Light	KL/CC	20/15
Lead	Filtersorb Sp3	SP	333
Nitrates	Nitrotrapp	NT	60
Manganese	Katalox-Light	KL	20
Mercury	Catalytic Carbon	CC	15
Molybdenum	Ferrox/TS	FL	15
Odors	Catalytic Carbon	CC	20
Turbidity & Cloudiness	Crystalite	CR	20
TSS & Trace elements	Zeosorb	ZS	20
Radium	Titansorb	TS	20
Selenium	Titansorb	TS	20
Phosphates	Ferrox	FL	15
Silicates	Trappsorb/ZS	TRS	10
Sulfur	Catalytic Carbon	CC	20
Uranium	Titansorb	TS	20
Scale Prevention (Cations)	Filtersorb SP3	SP3	333
Scale Prevention (Cations & Anions)	Filtersorb CT	CT	250



1000000

[illegible]

Water Testing and Treatment Plan

TDS:	pH:	Total Hardness:	Calcium Hardness:	
Alkalinity:		Silica:	Phosphates:	Chlorides:
Total Chlorine:		Free Chlorine:	Chloramines:	
Total Iron:		Copper:	Sulfates:	
Nitrates:		Nitrites:		

Notes:

Mail Water Sample to

ScaleXPro

4613 E. Ivy St, Ste 101

Water Testing and Treatment Plan

10/19/2021, 6:03 PM



ScaleX Pro

4613 E Ivy St
Suite 101

Mesa, AZ, 85205
United States
4802387429
murphy@scalexpro.com

tap

Media Solution

Sheraton Phoenix Downtown

340 North 3rd Street
Phoenix, AZ, 85004
United States
602-262-2500

Measurements

Test Factor	Ideal Range	Result	Source
Free Chlorine	0 - 0	0.09 ppm	
Total Chlorine	0 - 0	0.13 ppm	
pH	7.2 - 8.5	7.9	
Alkalinity	80 - 180	133 ppm	
Total Hardness	51 - 171	196 ppm	
Calcium Hardness	51 - 171	137.2 ppm	
Total Iron	0 - 0	0.3 ppm	
Copper	0 - 0	0.2 ppm	
Phosphate	0 - 10	0 ppb	
Chloride	0 - 30	300 ppm	
Total Dissolved Solids	50 - 180	685 ppm	
Silica	0 - 30	40 ppm	

Water Testing and Treatment Plan



Test Water

To test water, select a site from the table below or search for one using the search box in the navigation menu.
If no Sites exist, create one using the Add New Site button to the right.

[Add New Site](#)

Murphy Kormos >

DASHBOARD

TESTER CONTROLS >

Test Water

Create Linked Set

Create Property

Create Contact

Create Site


Manage Homelinks

ADMIN CONTROLS >

Sites Properties Contacts

Name	Address	Phone
AJ's Fine Food	1836 S. Val Vista Dr , Mesa , AZ , 85204 , United States	480-507-7280
Alden Teriace	803 Royal Dr, Mchenry , IL, 60050, United States	
All temp	271 Hwy 1085, Madisonville , LA, 70447, United States	
Arizona Bakery Service	4807 E Indigo St, Mesa, AZ 85205, Mesa, AZ, 85205, United States	480-968-7470
Arizona Coffee Techs	4613 E. Ivy, Suite 101, Mesa, AZ, 85205, United States	480-361-5690
Bashas	99 S Higley Rd, Gilbert , AZ, 85296, United States	
Bashas #67	1000 N Humphreys St, Flagstaff, AZ, 86001, United States	928-774-2101
Bashas #98	NE Corner Navajo Rts #15 & 60, Dilkon, AZ, 86047, United States	
Bashas (Indiana School and 80th)	8035 E. Indian school , Scottsdale, AZ, 85044, United States	4809466821
Beverage Service Group	1501 W. 31st St , Suite 404, Kansas City, MO, 64110, United States	816-215-2517
Bienvenidos Restaurant	2600 Navajo Blvd, Holbrook, AZ, 86025, United States	(928) 524-1600

Water Testing and Treatment Plan



WaterLink
Solutions PRO

Search...

Murphy Kormos >

DASHBOARD

TESTER CONTROLS >

Test Water

Create Linked Set


Create Property

Create Contact

Create Site

Manage Homelinks

ADMIN CONTROLS >




 **PROPERTY**


Sheraton Phoenix Downtown

+ add tags

ADDRESS
340 North 3rd Street
Phoenix, AZ, 85004
United States





PHONE
602-262-2500


  


 **Jeff Jackson**

PHONE
(480) 361-5690

EMAIL
jeff@azcoffeetechns.com






   


 + Add Contact

 **tap**

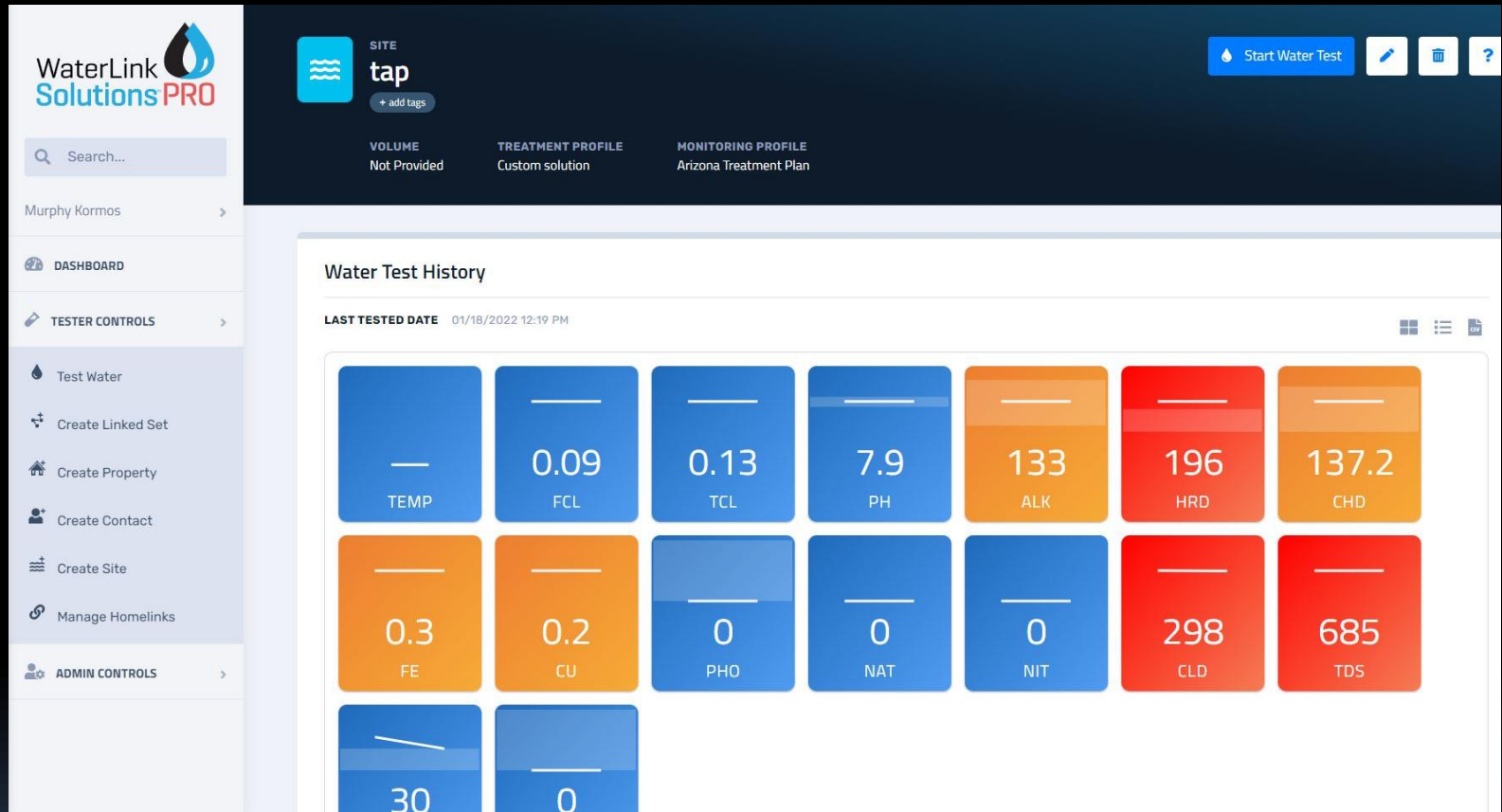
TREATMENT PROFILE
Custom solution

VOLUME
gallons


    

 + Add Site

Water Testing and Treatment Plan




Water Testing and Treatment Plan





WaterLink
SolutionsPRO


Search...


Murphy Kormos >


 DASHBOARD


 TESTER CONTROLS >


 Test Water


 Create Linked Set


 Create Property

 Create Contact

 Create Site

 Manage Homelinks

 ADMIN CONTROLS >

 SITE

tap


+ add tags


VOLUME
Not Provided


TREATMENT PROFILE
Custom solution

MONITORING PROFILE
Arizona Treatment Plan

Start Water Test









































Water Test History

LAST TESTED DATE 01/18/2022 12:19 PM

Date/Time	FCL	TCL	PH	ALK	HRD	CHD	FE	CU	PHO	NAT	NIT	
 01/18/2022 12:19 pm	0.09 	0.13 	7.9 	133 	196 	137.2 	0.3 	0.2 	0 	0 	0 	
 01/18/2022 12:12 pm	0.09 	0.13 	7.9 	133 	196 	137.2 	0.3 	0.2 	0 	0 	0 	
 10/19/2021 6:03 pm	0.09 	0.13 	7.9 	133 	196 	137.2 	0.3 	0.2 	0 			

1 - 3 of 3 items

Capacity of Filters

- Two Capacity Types with Filters
 - ▣ Hard Capacity is based on water softener technology. This capacity is a true capacity of a filter.
 - ▣ Soft Capacity is based on carbon technology.

BWT Bestmax XL



Espresso Equipment (with steam)

ppm CaCO ₃	Total hardness in US GPG	Blend Setting	Filter capacity in litres (US Gallons)	
			M	XL
120	≤ 7	3	≥ 3855 (≥ 1018)	≥ 6140 (≥ 1622)
171	10	3	2700 (713)	4300 (1135)
205	12	2	2040 (538)	3250 (858)
240	14	2	1750 (462)	2785 (735)
291	17	1	1290 (340)	2060 (544)
428	≥ 25	1	≤ 880 (≤ 232)	≤ 1400 (≤ 369)

Coffee Equipment (no steam)

ppm CaCO ₃	Total hardness in US GPG	Blend Setting	Filter capacity in litres (US Gallons)	
			M	XL
120	≤ 7	3	≥ 4625 (≥ 1221)	≥ 7370 (≥ 1950)
171	10	3	3240 (856)	5160 (1365)
205	12	3	2450 (648)	3900 (1032)
240	14	3	2100 (556)	3340 (884)
291	17	3	1550 (410)	2470 (324)
428	≥ 25	3	≤ 1055 (≤ 279)	≤ 1680 (≤ 445)

BWT Bestmax XL

What's inside BWT Premium XL Filter?

Activated Carbon-removes chlorine and bad taste and odor. If chloramines are present, you need catalytic carbon to remove them effectively. The more contact time the water has with carbon the better the filtration.



Sediment Filter- removes particles from water.
The smaller the micron the better the filtration



3M B195-CLS



Catalytic Carbon Block



Sediment Filter



Ion Exchange
(Cation Water Softener)



Breakout of components

Everpure 7FC



Brand	Item Number	Stated Capacity	Technology used	Flow Rate
BWT	Best Max XL	1,135 gallons bypass 3	Ion Exchange	1.0 gpm
3M	B195	1,249 gallons	Ion Exchange	0.5 gpm
Everpure	7FC	25,000 gallons	Capacity	2.5 gpm

COMBI OVENS PHOENIX, AZ



January 12, 2019



January 17, 2019



January 30, 2019

Added our duplex rack and (2) 20" special filters to this equipment. They we about to put a new RO system on because of the ongoing scale issues, which would have also caused further corrosion. This combi oven is 16 months old and operates 20 hours per day, 7 days a week. The racks were falling off and needed to spot welded. The previous recommended treatment (see photo to the right) ended up causing corrosion within 6 months. Upon contacting the manufacturer for warranty parts and service, ASU was told the water is corrosive and the warranty is void. No water testing provided from the manufacturer.

Only the special filters using NAC technology were used (NO LIME DE-SCALER) ASU, Sodexo, Aramark and Miner are all closely watching the progress and a impressed and with seeing the product is work before their eyes.

From Alto-Shaam Operator's manual

"Even water, particularly hard water that contains high to moderate concentrations of chloride, will cause oxidation and pitting that result in rust and corrosion."

None of the cleaning supplies or instructions address the issue of oxidation or scale build-up due to high temperatures





COMBI OVENS *OLD EL PASO*

Tamales, Mesa, AZ



Water test Results

TDS:567 ppm

Free Chlorine: .82

Total Chlorine: .82

pH: 7.6

Alkalinity:129 ppm

Total Hardness:246 ppm(14.38 grains)

Chlorides:160 ppm

Silica:20 ppm

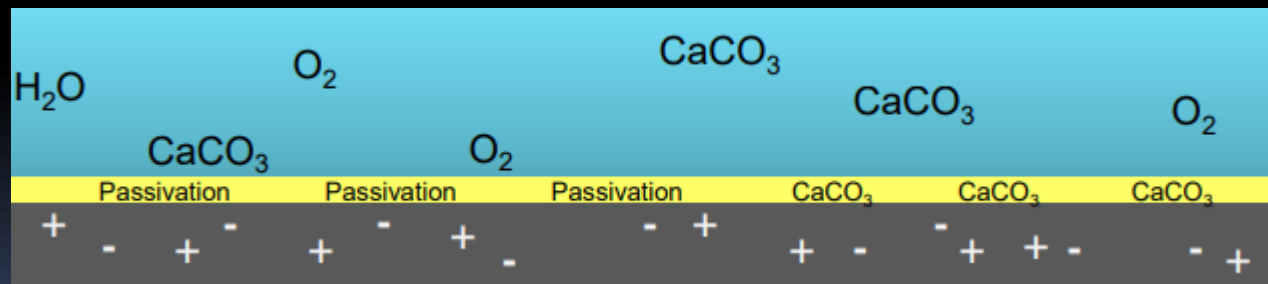
Filter system installed July 12, 2021. Photos 2/1/2022

Ice Equipment Common Issues



NAC vs. Polyphosphates for Ice

- Technology Threshold for hardness
- Taste
- Consistency
- Bacteria
- Corrosion Control



OXIDiCE

- Reduces ice machine maintenance
- Fits any sized machine
- No chemicals. Nothing to fill or recharge



OXIDICE SIZING CHART			
Light Color	Normal Environment	Extreme Environment	Run Time Every 10 Minutes
Off	NA	NA	Off
Yellow	< 400 lbs	NA	1
Green	400-600 lbs	< 400 lbs	2
Blue	600-1000 lbs	400-600 lbs	4
Purple	< 1000 lbs	< 600 lbs	7

Side by Side Comparison

Standard Mfg. Recommendation vs. NAC



- Our research shows that 60% - 65% of service calls for kitchen equipment are related to scale issues.
- Typically, we see significant scale peeling in 3 – 4 weeks
- ScaleX Pro filter not only prevents scale – it helps **REMOVE** existing scale

Quick Change and Drop-in

General

Item #	Item Description
SXP-10GCR	10" Game Changer filter
SXP-12GCR	12" Game Changer filter
SXP-14GCR	14" Game Changer filter
SF-10RC	Special Filter 510
SF-20RC	Special Filter 520
SF-10RC-N	Special Filter 510 Everpure head
SF-20RC-N	Special Filter 520 Everpure head
SXP-10GCP	10" Game Changer Plus filter
SXP-12GCP	12" Game Changer Plus filter
SXP-14GCP	14" Game Changer Plus filter
SXP-10TAR	10" The Answer filter
SXP-12TAR	12" The Answer filter
SXP-14TAR	14" The Answer filter
SXP-10TAP	10" The Answer Plus filter
SXP-12TAP	12" The Answer Plus filter
SXP-14TAP	14" The Answer Plus filter
Drop in	
SXP-1025	10" Slim line One and Done
SXP-2025	20" Slim line One and Done
SXP-1035	10" Slim line One and Done Plus
SXP-2035	20" Slim line One and Done Plus
SXP-1026	10" Slim line One and Done Catalytic
SXP-2026	20" Slim line One and Done Catalytic
SXP-1036	10" Slim line One and Done Catalytic Plus
SXP-2036	20" Slim line One and Done Catalytic Plus



QL1
Single
Head



QL2
Single
Head



QL3
Single
Head



QL3B
Single
Head

Specialized

Item #	Item Description
SXP-10ASR	10" Activesorb quick change
SXP-14ASR	14" Activesorb quick change
SXP-10CCR	10" Catalytic carbon quick change
SXP-14CCR	14" Catalytic carbon quick change
SXP-10SPR	10" Filtersorb SP3 quick change
SXP-14SPR	14" Filtersorb SP3 quick change
SXP-10CTR	10" Filtersorb CT quick change
SXP-14CTR	14" Filtersorb CT quick change
SXP-10CRR	10" Cortrapp quick change
SXP-14CRR	14" Cortrapp quick change
SXP-10KLR	10" Katalox Light quick change
SXP-14KLR	14" Katalox Light quick change
Drop In	
CTS	10" Slim line Titansorb carbon block
SXP-1027	10" slim line Filtersorb SP3
SXP-2027	20" slim line Filtersorb SP3
SXP-1027BB	10" big blue Filtersorb SP3
SXP-2027BB	20" big blue Filtersorb SP3
SXP-1037	10" slim line Filtersorb CT
SXP-2037	20" slim line Filtersorb CT
SXP-1037BB	10" big blue Filtersorb CT
SXP-2037BB	20" big blue Filtersorb CT
SXP-1048	10" slim line Catalytic carbon
SXP-2048	20" slim line Catalytic carbon
SXP-1088	10" slim line Katalox Light
SXP-2088	20" slim line Katalox Light
SXP-1099	10" slim line Cortrapp
SXP-2099	20" slim line Cortrapp

The 12" Fit QL1, QL2, QL3, QL3B, and Everpure manifold.

The 10" and 14" fit QL2 and QL3

Treatment Guide

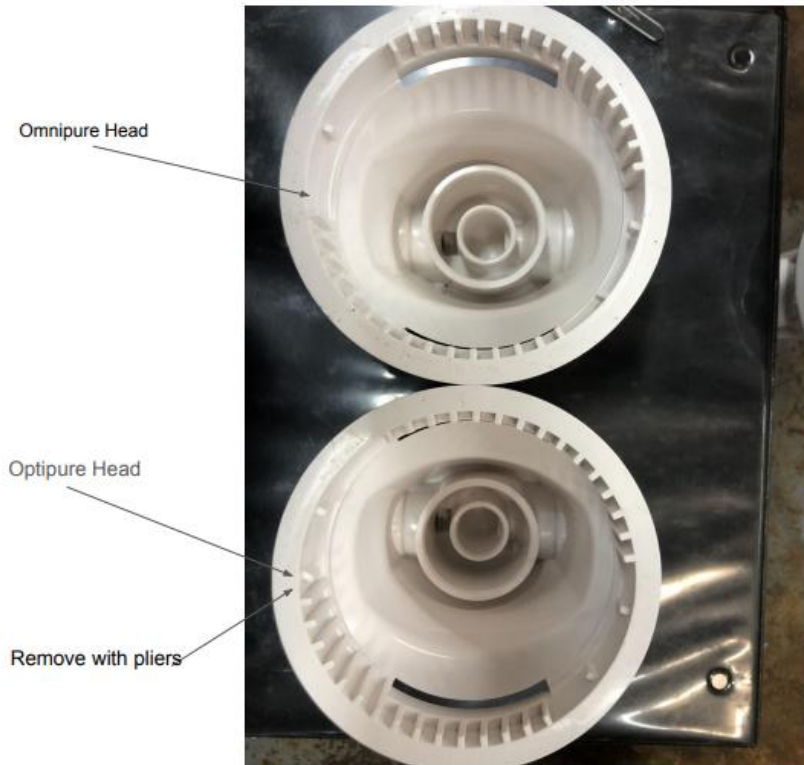
Quick Change				
Answer				
Description	Chlromamines and Chlorine	Temporary Hardness Protection	Permanent Hardness	Raise pH, Alkalalinity, and TDS
Answer	Yes	26 grain	No	No
Answer Plus	Yes	15 grains	250ppm silica,phosphates,sulfates	No
Answer Advantage	Yes	No	No	Yes
Gamechanger				
Description	Chlorine	Temporary Hardness Protection	Permanent Hardness	Raise pH, Alkalalinity, and TDS
Game Changer	Yes	26 grain	No	No
GameChange Plus	Yes	15 grains	250ppm silica,phosphates,sulfates	No
Gamechanger Advantage	Yes	No	No	Yes
Drop in Style				
One and Done				
Description	Chlorine	Temporary Hardness Protection	Permanent Hardness	Raise pH, Alkalalinity, and TDS
One and Done	Yes	26 grain	No	No
One and Done Plus	Yes	15 grains	250ppm silica,phosphates,sulfates	No
One and Done Advantage	Yes	No	No	Yes
One and Done Catalytic				
Description	Chlromamines and Chlorine	Temporary Hardness Protection	Permanent Hardness	Raise pH, Alkalalinity, and TDS
One and Done	Yes	26 grain	No	No
One and Done Plus	Yes	15 grains	250ppm silica,phosphates,sulfates	No
One and Done Advantage	Yes	No	No	Yes

One and Done



Cap Color	Chlorine	Chloramines	Scale Treatment
Grey	x		26 grains
Clear	x		15 grains/250 ppm permanent hardness
Black	x	x	26 grains
Blue	x	x	15 grains/250 ppm permanent hardness

OptiPure Quick Conversion



Filter will fit Optipure head after removing.

OR



Ion Exchange Media Conditions As Observed by Color

Proper color



Copper and Zinc in water



Copper



Chloramines



Iron



Brass



Point of Entry

ScaleX Pro 2 Series		
Description	GPM	Tank Size
ScaleX Pro 22118	21	14x65
ScaleX Pro 22824	28	14x65
ScaleX Pro 23530	35	16x65
ScaleX Pro 24236	42	18x65

Flow rate is based on 26 grains of hardness and 2" pipe.
Systems can be designed up to 85 grains

Point of Entry

ScaleX Pro 4 Series		
Description	GPM	Tank Size
ScaleX Pro 45245	52	21x60
ScaleX Pro 47060	70	24x69
ScaleX Pro 48875	88	24x69
ScaleX Pro 411090	110	30x72

Flow rate is based on 26 grains of hardness and 4" pipe. Systems can be designed up to 85 grains

Combi Oven

&

Large Systems

Combi Oven References

Arizona Bakery Sales & Service

4551 E. Ivy St #101

Mesa, AZ 85205

John Shaw-Owner

Johnshaw@abssimplythebest.com

480-968-7470

www.abssimplythebest.com

Old El Paso Tamales

730 E Brown Rd

Mesa, AZ 85203

Hector-Owner

480-844-0477

www.olderpasotamales.com

General Parts

3150 N Freeway Industrial Loop #100

Tucson, AZ 85750

Michael Angello-General Manger

Michael@gpservicedirect.com

520-850-3188

www.generalparts.com

Double Tree Hilton

5401 N. Scottsdale Rd

Paradise Valley, AZ 85250

James Flint-Director of Facilities

480-947-5400 Ext 3013

Large Systems

Wild horse Pass Chevron

5139 E. Wild horse Pass Blvd

Phoenix, AZ 85048

JD Saran-Owner

480-717-7500

JDSaran@tjoil.net

Stotz Equipment

11111 W. McDowell Road

Avondale, AZ 85392

Glenn Yinger-General Manager

602-818-8096

gyinger@stotzeg.com

Larry Miller Toyota

8633 W Bell Rd

Peoria, AZ 85382

Rick Depke-Service Director

623-876-3400

rdepke@lhmauto.com

AM PM

2310 N 32nd St

Phoenix, AZ 85008

Gina Gill-Owner

602-619-3744

ginamgill@gmail.com

Ice Machine References

Ice Machine References

Houston Ice

2429 Bissonnet #517

Houston, TX 77005

Allen-Owner

(713)213-7433

allen@houstonicemachine.com

Chillmasters

2010 E. University Dr, Suite 10

Tempe, AZ 85281

Pat-Owner

(602)743-7700

pat@chillmasters.com

WaterTek

680 W. 92nd Street

Bloomington, MN 55420

Travis-Owner

(952)894-4430

Travism@watertek-group.com

Varitech Commercial Service F&E's Frozen H2O

1646 S. Research Loop

Tucson, AZ 85710

George-Service Manager

520-885-3405

solutions@varitechaz.com

2442 Pricedale Dr

Bogue Chitto, MS 36929

Steve Wallace-Owner

601-669-0028

iceman.62@aol.com

St Joseph's Hospital

350 W. Thomas Road

Phoenix, AZ 85013

Raymond Myers- Facilities

602-406-4638

Raymond.myers@dignityhealth.org

Drip Coffee & Espresso References

Ronnoco Coffee, LLC

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Thank you!!!

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