177 healthmark

A Getinge company

Interpretation Guide for Cleaning Monitoring Products

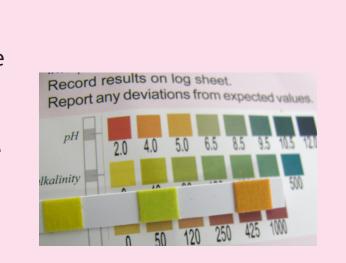
hmark.com 800.521.6224

AquaTestTM

Mineral contaminants in water bind with detergents, reducing the effectiveness of those agents. If Hardness increases, detergent volume should be increased and vice versa.

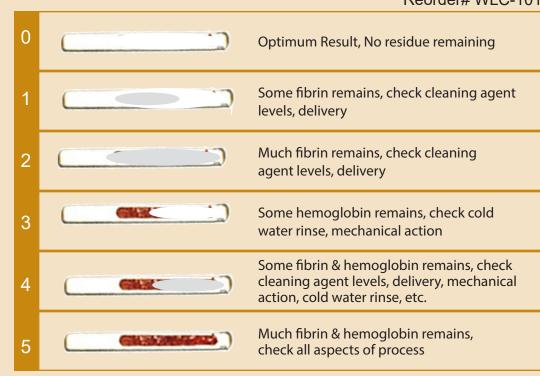
Alkaline substances buffer the water against sudden changes in pH. Sudden changes in Total Alkalinity may be a forerunner to changes in the pH level.

Enzymes cleaners operate best within a certain pH level. Changes in the pH level away from the optimal range will result in reduced effectiveness of the enzyme cleaner.

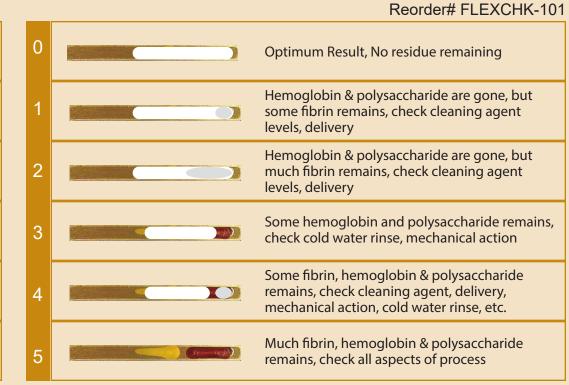


Reorder# AT101

5 LumCheckTM



FlexiCheckTM



SonoCheckTM

Problem	Reason	Corrective Action
De-Gassing	Dissolved gasses will absorb ultrasonic energy	De-gas solution according to equipment manual
Water Level	Ultrasonic energy may reflect off of the surface of the solution and change energy distribution	Check equipment manual for correct water level
Operating Cycle Time	Time varies with the amount of ultrasonic energy available	Longer operating cycles generally provide better results
Instrument Load	Heavy instrument loading and certain materials can absorb ultrasonic energy	Look for weak points using the periodic functional test and check for ultrasonic absorbent material like silicone or plastics
Transducer Failure	Transducer efficiency may decrease with age. Individual transducers may fail while others in the equipment continue to function	Perform periodic functional test, placing SonoCheck monitors in each transducer location (see equipment manual)
Low Energy	Transducer inefficiency or the ultrasonic basket may absorb too much energy	Check performance without basket in place Compare performance against another ultrasonic cleaner if available. Call for servic

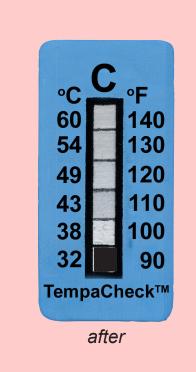
Reorder# TI108



Reorder# WT101

TempaChekTM-90

A color change from <u>silver to black</u> records the highest temperature reached. At temperatures above 45°C (113°F), blood cooks on to instruments and becomes highly insolvent. In an instrument washer the initial rinse (prewash) stage, water temperature should not exceed 110°F and ideally remain significantly below this level. TempaChekTM-90 should be read after the Cold Water Rinse and before the next stage (depending on the cycle, may be an enzyme or detergent wash). The temperature on the TempaChekTM should not exceed 100°F. Immediately report a result that exceeds this level.



Reorder# TEMP-90

TOSI®

Test Resul

When following "Daily Protocol" for testing. See www.hmark.com.

als remains

remains

Possible Reasons for TOSI Test Results

Optimum result

Immediate corrective action

a) Repeat test protocol with small load*

d) Check dosage/concentration of detergent

c) Investigate cleaning temperature

(to be conducted by SPD personnel)

relevant process parameters (<u>requiring</u> Service Engineer)

a) In case of confirmation: Consider other possible

b) Adjust cleaning time to type of cleaner or extend

c) Adjust cleaning temperature to type of detergent

a) In case of confirmation: Consider other possible reasons

b) In case of confirmation: Consider other possible reasons

a) In case of confirmation: Consider other possible reasons

b) In case of confirmation: Consider other possible reasons

f) Check/increase water pressure, check function of pump

c) Install spray system correctly or replace by a suitable one

c) Adjust cleaning time to type of cleaner or extend time

d) Adjust cleaning temperature to type of detergent

e) Increase dosage or refill/replace reservoir

d) Replace defective spray arm if necessary

e) Replace Filter if necessary

f) Replace wrongly stored or expired detergent

Proposal for optimization of

not necessary

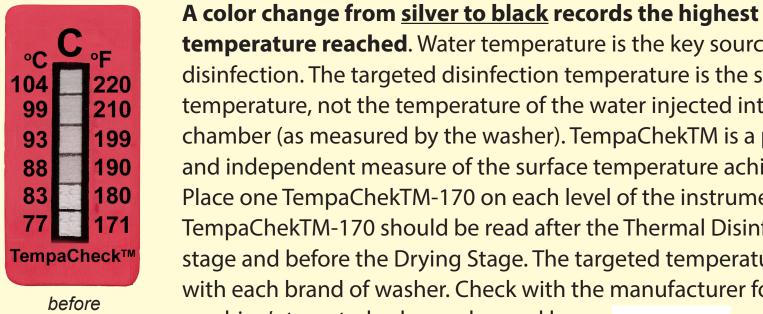
d) Increase dosage

32 90

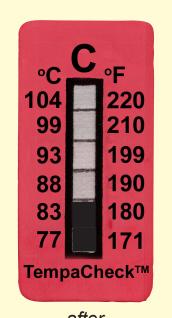
empaCheck™

before

TempaChekTM-170



temperature reached. Water temperature is the key source of thermal disinfection. The targeted disinfection temperature is the surface temperature, not the temperature of the water injected into the chamber (as measured by the washer). TempaChekTM is a permanent and independent measure of the surface temperature achieved. Place one TempaChekTM-170 on each level of the instrument rack. TempaChekTM-170 should be read after the Thermal Disinfection stage and before the Drying Stage. The targeted temperature varies with each brand of washer. Check with the manufacturer for your machine's targeted value and record here:



Reorder# TEMP-170

after

Reorder# CW-101

Description

Optimum Result O Test soil is completely dissolved, no test soil residuals left

Completely rinsed = no water soluble proteins visible, but small amount of fibrin residu-

Completely rinsed = no water soluble proteins visible, but most or all of the fibrin layer

- Incompletely rinsed = small residuals of the water soluble (red) proteins visible, no or only little amount of fibrin layer remains visible
- Incompletely rinsed = significant residuals of the water soluble (red) proteins visible, in addition most or all of the fibrin layer remains

TOSI - Test soil is largely or completely remaining

a) Incorrect positioning of Test

- b) Overloading/incorrect loading*
- c) Temperature not optimal

a) Incorrect positioning of Test

c) Cleaning time too short

d) Temperature not optimal

a) Incorrect positioning of Test

Blocked spray system

or ultrasonic bath

h) Defective pump

a-k) same as rating 4

Blocked filter

b) Overloading/incorrect loading*

Non-uniform water distribution

Insufficient water pressure

e) Dosage of cleaner too low

f) Insufficient detergent efficiency

g) Foaming tensides left over from pre-cleaning

a-g) same as rating 3 but more

i) Loss of pressure or other de-

Incorrect temp for detergent

1) No cold pre-rinsing step in place

m) Complete breakdown of the

washer and/or the chemistry

k) Failure of chemistry in use

or too hot pre-rinsing

b) Overloading/incorrect loading*

- d) Dosage of cleaner too low

not necessary

a) Repeat test protocol with small load* b) Repeat test protocol with correct load*

b) Investigate cleaning time

- c) Investigate cleaning time
- d) Investigate cleaning temperature e) Check dosage/reservoir or cleaner
- f) Check storage conditions and expiration Date of
- a) Repeat test protocol with small load* b) Repeat test protocol with correct load*
- c) Check coupling of spray systemd) Check movement of spray arms and clean
- e) Check filter
- Rinse medical devices more carefully after precleaning or ultrasonic treatment
- a-g) Same as rating 3

a-k) Same as rating 4

- h) Refer to Service Engineer
- Made any observations about leakages? Investigate cleaning temperature

availabilty of a pre-rinsing step

identified and resolved

k) Check tube connections/reservoir/storage conditions/expiration date of detergent

1) Investigate pre-rinsing temperature and/or

m) It is strongly recommended not to use the

washer/disinfector until problems have been

- a g) same as rating 3
- h) Replace pump
- Repair leakage and/or replace defective spare parts
- Select and set appropriate parameters for detergent in use
- Reconnect tubing refill or replace reservoir/replace wrongly stored or expired detergent

a - k) same as rating 4

- 1) Reduce pre-rinsing temperature below 40°C or install cold pre-rinsing cycle
- m) Investigate carefully all relevant cleaning parameters and make necessary corrections

CartWashChekTM

Tempachek °C °F Designed to challenge the mechanical efficiency of a cart washer. It combines the measurement of two key parameters of cleaning 82 180 in one convenient test strip. The hydrophilic ink square will 66 150 change color (from black to white) only if moistened by water. 49 120 The irreversible thermometer will register the temperature levels of 120°F, 150°F, and 180°F, documenting the highest temperature reached during the cycle.

