

# R-Water Value Proposition for Healthcare



R-WATER® FOR HEALTHCARE

REDUCES COST. REDUCES STAFF TIME. REDUCES READMISSIONS.

## R-Water Device

A compact, wall-mounted device that enables facilities to produce two highly-effective disinfecting/cleaning solutions on-site.

This is accomplished via a patented, automated water electrolysis process. These two hypoallergenic water-based solutions, **TK60 One-Step Disinfectant™** and **FC+ All-Purpose Cleaner & Degreaser™** allows facility management to replace the majority of cleaning and disinfecting products used.



One-Step Disinfectant™

**TK60 One-Step Disinfectant** kills many pathogens including COVID-19 (Coronavirus) in 20 seconds and MRSA, *C. diff* spores, TB, and Black Mold in 60 seconds. The active ingredient in TK60 is HOCl (Hypochlorous Acid) - the same active ingredient that is in Clorox Healthcare® Fuzion® Cleaner Disinfectant.



All-Purpose Cleaner™

**FC+ All-Purpose Cleaner & Degreaser** safely removes stains, dirt, and grime from surfaces. It also prevents detergent build-up on furnishings and flooring that often dull appearances and trap odor-causing bacteria. The active ingredient in FC+ is NaOH (Sodium Hydroxide).

Both solutions have superior safety ratings and are nonirritating to skin and lungs. Furthermore, TK60 One-Step Disinfectant complies with EPA/FDA code for use on food contact surfaces with no rinse.

The R-Water Device is continuously remotely monitored via a data link. Each R-Water Device is capable of producing on-site approximately 300 gallons of TK60 and 150 gallons of FC+ every 24 hours. The Device is designed to be easily mounted in a janitorial closet. It automatically produces ready to use (RTU) solutions via a patented, precision closed-loop process. The device features a complex micro-controlled circuit to monitor usage, internal component health, and regulate solution production. The R-Water Device can be programmed to produce RTU solutions at exact concentrations to meet application needs. Real-time remote monitoring ensures easy and prompt servicing and maintenance, as well as usage statistics. The R-Water Device Specifications sheet can be found at this link:

<http://r-water.com/docs/technical/r-water-spec-sheet.pdf>



Manufactured by E4D Technologies, LLC (EPA Est. # 96310-TX-1)



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## PROBLEMS SOLVED BY R-WATER® DEVICE



### COMPLICATED CLEANING PROCEDURES

TK60™ and FC+™ replace a variety of products and simplify procedures to reduce training time and risk of user error.



### HEALTHCARE-ACQUIRED INFECTIONS (HAIS)

CDC recommends choosing a disinfectant with a shortened contact time. TK60 is effective against a wide range of pathogens in just one minute.



### EXPOSURE TO HARMFUL CHEMICALS

TK60 is 99.98% H<sub>2</sub>O and 0.02% HOCl. FC+ is 99.925% H<sub>2</sub>O and 0.75% NaOH. Neither solution contains properties that are harmful to humans, animals, or the environment. Additionally, both are free of Volatile Organic Compounds (VOC).



### THREATS TO HUMAN HEALTH

The EPA currently recommends reducing to less toxic chemicals where possible. TK60 and FC+ are water-based and harmless to humans, thus eliminating rampant health issues such as cancer, asthma, and allergies caused by dangerous chemical exposure.



### EXPENSE AND ENVIRONMENTAL CONSEQUENCES OF PACKAGED CHEMICAL PRODUCTS

TK60 and FC+ are produced on-site eliminating procurement, shipping costs, and the problem of plastic pollution as containers can be reused.



### DAMAGE TO VALUABLE FURNITURE, FIXTURES, AND EQUIPMENT (FF&E)

TK60 and FC+ have phenomenal surface compatibility and remove old chemical build-up resulting in less frequent remodels. Both are non-corrosive, protecting your substantial investment in structures, furniture, monitors, beds, and mattress covers.



### SLIPS AND FALLS

FC+ improves the coefficient of friction on floors thus providing better traction from slips and falls.



### HARD COST SAVINGS

#### PRODUCTS ELIMINATED BY R-WATER® SOLUTIONS

- Disinfectants (including wipes)
- Sanitizers
- Degreasers
- Carpet & room deodorizers
- Stain remover
- Carpet cleaners
- Tile & vinyl mopping chemicals
- Grout cleaners
- Surface-specific cleaners (e.g. glass, tub, stainless steel)

- **Less Product Used to Assure Proper Disinfection** - Unlike many products, TK60™ requires only one application to kill a variety of pathogens & remains wet for the full duration of its one minute contact time.
- **Procurement Costs** - The R-Water Device produces TK60 and FC+™ on site. The task of ordering multiple cleaning chemicals from a myriad of manufacturers is eliminated.
- **Freight and Storage Costs** - Solutions are not shipped in to be received, inventoried, disbursed, rotated, and discarded.
- **Waste Disposal Costs** - Containers used for TK60 and FC+ do not require triple-rinsing or special disposal. Used gallons, pour-spouts, sprayers, and containers can be reused, reducing waste.

### ADDITIONAL HARD & SOFT COST SAVINGS

#### STAFF

- **Training Time**
  - o Procedure simplification - compare time spent on training to previous training procedures.
  - o Perception of users when comparing protocols - employee feedback and notes.
  - o Reduced number of products to study - compare number of products and risk of misuse.
- **Staff Sick Days** - Compare to same period of previous year.
- **Labor Costs**
  - o Procedure simplification - compare number of steps in cleaning and disinfecting procedures.
  - o Reduced product contact time - compare frequency of use and time required for proper disinfection.
  - o Turnaround times for various areas including patient rooms and OR - compare to previous times.
- **Financial Evaluation of Revenue Gained** (e.g. potential additional surgeries in 24-hours).
- **Reduced Number of Room Re-Cleans** (e.g. C. diff rooms).

#### PATIENTS

- **HAI Rates** - Compare HAI rates during 90-days to same 90-day period of previous year.
- **Validation of Disinfection by Detection of Adenosine Triphosphate (ATP) or Culture Swabs** - Compare to previous results.
- **Comments About Stains, Cleanliness, and Odors in Various Spaces** - Compare feedback on areas cleaned with R-Water solutions to areas cleaned using other chemicals.
- **Incidents of Slips and Falls** - Compare incidents of slips/falls during 90-day period to same 90-day period of previous year.

#### FACILITY

- **Restored FF&E** - List of repairs/replacements eliminated by using R-Water solutions.
- **Measure Coefficient of Friction on Floor Surfaces** - Compare results in patient rooms, high-traffic areas, and dietary cleaned with FC+ to floors cleaned with other chemicals.
- **Before and After Photos** - Carpets, flooring, tile, grout, upholstery, and other surfaces.



## STATEMENT OF BENEFITS



One-Step Disinfectant™

**REPLACES DISINFECTANTS, SANITIZERS, DEODORIZERS, WINDOW CLEANERS**

Kills times observed for TK60™ (one minute) are impressive, especially when compared to other disinfectants that have kill times ranging from 3-10 minutes

Resistant strains of pathogens cannot form against it which prevents the development of multi-drug resistant organisms

TK60 is produced on-site, RTU, unlike many disinfectants that must be diluted from hazardous concentrates prior to use

Complies with EPA/FDA code for use on food contact surfaces with no rinse

Water-based solution is fragrance-free, dye-free, non-abrasive, and non-corrosive

### SUMMARY OF EFFICACY DATA FOR TK60 AS VALIDATED BY MICROCHEM LABORATORY, ROUND ROCK, TX

CLAIM	MICROORGANISMS	LAB RESULTS	% KILL IN ONE MUNITE
<b>Hospital/Healthcare Disinfectant Hard, Nonporous Surfaces</b>	<i>P. aeruginosa</i> ATCC 15442	Positive Carriers: 0/180	100% kill in 1 min.
	<i>S. aureus</i> ATCC 6538	Positive Carriers: 0/180	100% kill in 1 min.
<b>Efficacy Against COVID-19</b>	Human Coronavirus Strain 229E	99.99% kill	99.99% kill in 20 sec.
<b>Efficacy Against <i>C. difficile</i> Spores*</b>	<i>C. difficile</i> spores	99.9997% kill	99.9997% kill in 1 min.
<b>Tuberculocidal Disinfectant Hard, Nonproun Surfaces</b>	<i>M. bovis</i> BCG	Positive Carriers: 0/10	100% kill in 1 min.
<b>Efficacy Against Black Mold</b>	<i>A. brasiliensis</i>	Positive Carriers: 0/10	100% kill in 1 min.

\*When used as directed (i.e., surface is wiped dry after remaining wet for 60 seconds), TK60 is 99.99999% effective against *C. diff* spores (6+ log reduction).



All-Purpose Cleaner™

**REPLACES ALL-PURPOSE CLEANERS, DEGREASERS, CARPET, FLOOR, AND GROUT CLEANERS**

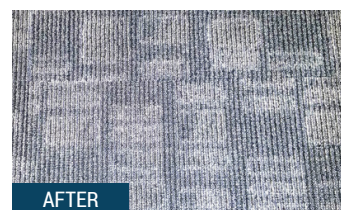
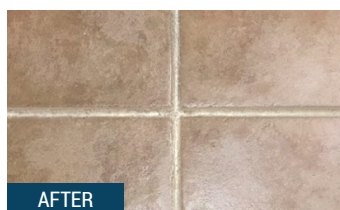
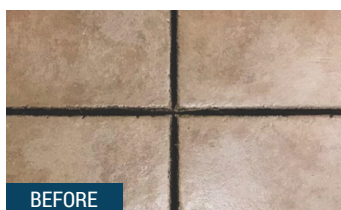
Improved traction on flooring (coefficient of friction), resulting in reduced incidents of slips and falls

Produced at ~750 ppm NaOH, FC+ breaks down oils and fats for powerful degreasing action

FC+™ can be added directly to floor, carpet, and upholstery cleaning equipment

Water-based solution is fragrance-free, dye-free, non-abrasive, and non-corrosive

### SAMPLE PHOTOS OF BEFORE AND AFTER CLEANING WITH FC+ ALL-PURPOSE CLEANER



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