FRANKE COMMERCIAL

HEALTHCARE

PLUMBING FIXTURES AND ACCESSORIES

Make it wonderful

FRANKE

Contents

HEALTHCARE-ACQUIRED INFECTIONS: THE PROBLEM

The spread of germs and bacteria is an alarming issue in hospitals and other public places. Healthcare-acquired infections are the third leading cause of death in North America. Entire departments of hospital administrations are dedicated to infection control and mitigating the spread of germs from patients to staff to visitors.

Hospital sinks and drains are breeding grounds for bacteria. These warm, wet, dark environments foster rapid biofilm growth. Handwash stations in hospitals were identified as the culprits in several instances where the infectious disease has caused illness and loss of life.

Standard faucets found in hospitals splash germs and bacteria straight out of the drains onto nearby surfaces, staff, patients, beds, and equipment. With the increased prevalence of antibiotic-resistant superbugs, a change in approach to handwashing was needed.

FRANKE INVESTIGATES

Tragically, between December 2004 and March 2006, a prominent hospital in Canada experienced a deadly, contagious *Pseudomonas* outbreak. It resulted in 17 deaths, with 36 patients becoming susceptible to *Pseudomonas* while under the hospital's care. Subsequently, between Fall 2006 and Spring 2011, 66 patients at another Toronto hospital were infected or colonized by a drug-resistant bug called *Klebsiella oxytoca*[1]. Although the causes of the infections were different, a team of professionals determined two common factors in these cases: 1) the design of the sinks and 2) the bacteria contained in the waste traps.

Responding to these studies, the Canadian Standards Association (CSA) refined its Z8000 guidelines accordingly. At this time, Franke's Product Development Engineer reached out to a professor involved in the study to develop an engineered solution to meet and exceed these guidelines and help keep patients and hospital staff safe.

Proper hand hygiene is the first line of defense against high infection rates. Hospitals and Infection Control experts have made strides to improve hand-washing compliance with staff.

* With the release of its Z8000 Health Care Facilities Standard in November of 2011, the Canadian Standards Association (CSA) clearly defined specifications for the design and construction of hospitals and other health care facilities, all aimed at increasing health and safety, and limiting the spread of illness. (See page 29 for full details relating to Canadian market.)

1. *Klebsiella oxytoca* is a type of bacteria which is naturally occurring in our intestinal tract, mouth, and nose.

THE IMPACT OF POOR HAND HYGIENE

Medical staff are aware that technique plays a large role in the effectiveness of hand hygiene. Public Health campaigns at the national, regional, and local levels are devoted to educating people on the importance of handwashing to prevent the spread of disease, infection, and illness.

According to a study of handwashing behavior[1], handwashing compliance has a long way to go. The average person only washes their hands for approximately 10 seconds, removing approximately 90% of germs. Bacteria that remains on hands can double in under 20 minutes and continue to grow, leaving them to transfer onto anything and anyone they touch.

When it comes to healthcare environments, the transfer of germs and bacteria is a threat to patients, staff, and visitors' safety. While the importance of proper handwashing technique is instilled in hospital staff, patients need education and reinforcement.

Many dangerous pathogens commonly found in hospitals are transmitted to patients via the 'fecal-oral route'[2]. Doctors, nurses, and support staff rarely touch patients' mouths, and when they do, they take proper hand hygiene precautions. Studies suggest that it is the patients who are transmitting these pathogens to their own mouths.

1. "Measurement of patient hand hygiene in multiorgan transplant units using a novel technology: an observational study", Infection Control and Hospital Epidemiology, Published 2014.
2. The fecal–oral route (also called the oral–fecal route or orofecal route) describes a particular route of transmission of a disease wherein pathogens in fecal particles pass from one person to the mouth of another person.[https://en.wikipedia.org/wiki/Fecal%E2%80%93oral_route, Sept 2019]

ALARMING INFECTION STATISTICS

1 in 10 Canadian patients **acquires** an infection from the hospital; that's 200,000 people each year. **5% die;** 10,000 Canadians who acquire infection from a hospital will die[2]

99,000 Americans die annually from an **HAI**. In the United States, the Centers for Disease Control and Prevention estimates there are roughly **1.7 million** hospital-associated infections each year[3].

2. "Our vision is to reduce healthcare-acquired infections...by 80% by 2024", CHAIR, Aug-6-2019, Citing Sources: [http://chaircanada.org]
3. "Hospital-acquired infection", Wikipedia, Aug-13-2019, Citing Sources: [https://en.wikipedia.org/wiki/Hospital-acquired_infection.]

A STUDY IN HANDWASHING METHODS

Franke commissioned a university laboratory to conduct experiments assessing the difference between conventional handwashing and handwashing with ozonated water. The results were clear: ozonated water removes the highest concentration of bacteria in the most eco-friendly manner.

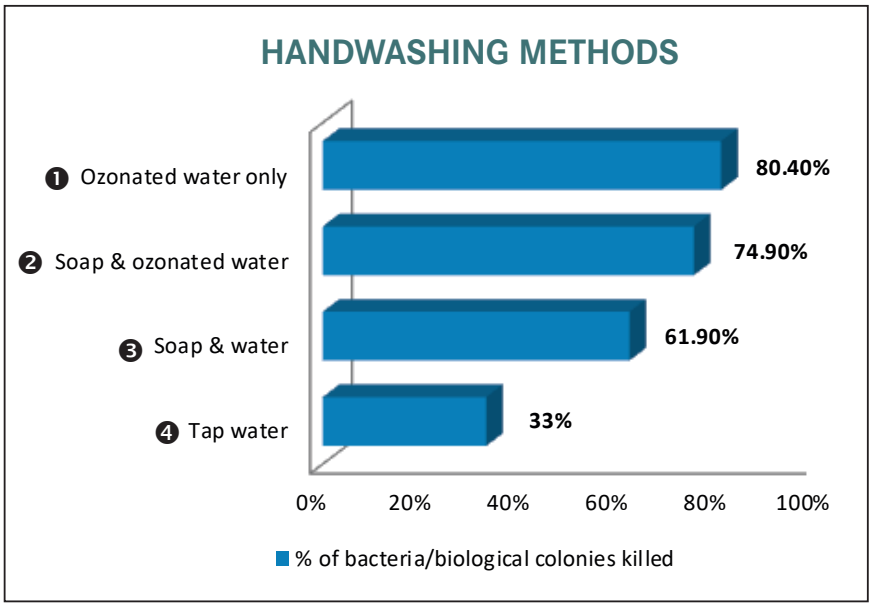
Comparative Study with Commercially Available Soap Solutions[1]

THE EXPERIMENT:

Four different handwashing treatments [shown below] were utilized to study the reduction in total viable bacteria counts: ❶ Ozonated water, ❷ Soap and ozonated water, ❸ Soap and tap water, and ❹ Tap water. Standard microbiological techniques were employed during the experiment. These include sterilizing equipment and media in an autoclave for 30 minutes at 121ºC, changing gloves frequently and working in a biosafety cabinet or near an open flame. Sterile swabs were taken from hands before and after each treatment and diluted in sterile deionized water. The 'pour plate method[2] was followed and replicate samples were plated for each dilution. Nutrient agar media was used to grow the heterotrophic bacteria and plates were incubated at 25ºC (±2ºC) for 3-6 days. The number of viable bacterial or colony forming units (cfu) were counted for each plate and plates ranging in 30-300cfu were used to calculate the total reduction in viable bacteria.

THE RESULTS:

This chart summarizes the study results which can be interpreted for two groups of people:
1) for staff or patients who use the sink and,
2) for those patients who do not use soap. This second group is where a **huge potential benefit is observed**.



1. Dr. S. Kurissery and Dr. N. Kanavillil, *"Efficacy of ozonated water"* – a commissioned study, Lakehead University, 2020
2. Pour plate method is usually the method of choice for counting the number of colony-forming bacteria present in a liquid specimen. (https://microbeonline.com/pour-plate-method-principle-procedure-uses-dis-advantages, Sept 2019)

OZONATED WATER KILLS CORONAVIRUS SURROGATE

A Time Kill Study of Ozonated water against Phi6[6]

Due to biosafety concerns, it is nearly impossible to commission a consumer-goods test against SARS-CoV-2, the virus that causes COVID-19. Laboratories are using surrogate viruses such as Cystovirus Phi6 to screen the activity of different technologies for infection prevention and control.

Phi6 is an enveloped phage with many characteristics similar to large enveloped viruses such as the novel coronavirus.

Franke Kindred Canada commissioned a time-kill study for Phi6 to gauge the efficacy of the Medi-flo and Ozo-flo.
Results confirm Medi-flo will not harbour this type of pathogen.

RESULTS:
Franke Ozone Technology showed a 99.9996% reduction of Phi6 phage.

Franke Ozone Technology has been tested against:

- **Phi6, a coronavirus surrogate**
- ***Candida auris***
- **MRSA**
- ***C. difficile***
- ***Pseudomonas***
- ***Klebsiella pneumoniae***

Find published results on our website
www.franke.com/ca/en/ws/news/product-news/medi-flo.html

OZONATED WATER KILLS BACTERIA

Klebsiella pneumonia (CRE) Time-Kill Studies: Extracted from Final Report, "Assessment of Antimicrobial Activity using a time-kill procedure"[7]

PROCEDURE:
The testing was performed to determine the effectiveness of ozonated water samples of concentrations 0.15 ppm and 1.5 ppm (provided by Franke Kindred Canada) at killing *Klebsiella pneumoniae* (ATCC BAA-1705) for 30 seconds and 15 minutes exposure times.

CULTURE PREPARATION:
A pure culture of *Klebsiella pneumoniae* (ATCC BAA-1705) was streaked on to Healthlink Anaerobic Blood Agar plates and incubated at 35°C for up to 48 hours under anaerobic conditions.

Dilutions of the neutralized test solutions were plated on 3M Petrifilm plates and incubated at 35°C for 24-48 hours to determine the surviving microorganisms at the respective contact times.

CALCULATIONS:
B = Number of viable test microorganisms in the control substance immediately after inoculation

A = Number of viable test microorganisms in the test substance after the contact time

CONCLUSIONS/OBSERVATIONS:
Both the samples - 0.15 ppm (exposure times 15 and 60 mins) and 1.5 ppm (exposure times 30 seconds and 15 mins) demonstrated efficacy against *Klebsiella pneumoniae* (ATCC BAA-1705) causing a 99.99% reduction.

6. Crem Co Labs, Mississauga, ON, Canada, "Assessment of the Activity of ozonated water technology against Viruses in Suspension: Testing against Cystovirus Phi6" - a commissioned study. August 2020 [https://www.franke.com/ca/en/ws/news/product-news/medi-flo.html].
7. EMSL Canada Incl, Mississauga, ON, Canada, "Assessment of Antimicrobial Activity using a time-kill procedure" – a commissioned study. April 05, 2019 [https://www.franke.com/ca/en/ws/news/product-news/medi-flo.html].

Eradicating *Pseudomonas* and *Candida auris* from a Sink Drain System Using Ozonated Water[1]

An Independent Study by Case Western Reserve University School of Medicine

INTRODUCTION:
Contaminated sinks and drains are rapidly emerging as a cause of healthcare-associated infections, particularly in intensive care units (ICUs) .

- Drain contamination is particularly difficult to eradicate due to the propensity for biofilm formation in piping. We tested the benefit of introducing ozone into the water supply for decolonization of sinks and sink plumbing.

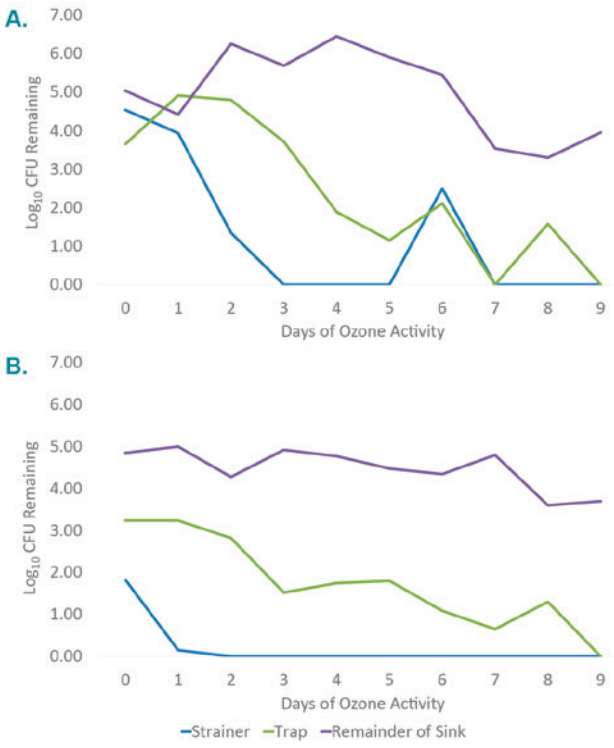
METHODS:

- We evaluated the efficacy of ozonated water for reduction of methicillin-resistant *Staphylococcus aureus* (MRSA), *Pseudomonas*, and *Candida auris* on steel disks.
- On steel disks, organisms were exposed to ozonated water with concentration ≥0.9 ppm for 10 minutes.
- We also evaluated activity of ozonated water in a sink model deliberately colonized with *Pseudomonas* and *C. auris*.
- Ozonated water was added to the system via the faucet.

RESULTS:

- On steel discs, MRSA, *Pseudomonas*, and *C. auris* were reduced by ≥3 $\log_{10}$ colony-forming units (CFUs) with 10 minutes of exposure to ozonated water.
- In the sink model, we demonstrated total elimination of *C. auris* and *Pseudomonas* at the strainer within 2 days of ozone activity (figure 1, 2).
- We also demonstrated total elimination of both organisms at the trap within 9 days of ozone activity (figure 1, 2).
- Beyond the trap there was no significant decolonization (figure 1, 2).

Figure 1. A) Elimination of *Pseudomonas sp.* from the ozone sink B) Elimination of *C. auris*



CONCLUSIONS AND ACKNOWLEDGEMENTS:

- Our data suggest that ozonated water can effectively kill MRSA, *C. auris*, and *Pseudomonas*.
- An ozone generating sink can self-clean, reducing the burden of *C. auris* and *Pseudomonas*.
- This device has the potential to reduce the number of sink-associated infections in hospitals, and merits further investigation.
- Class 1 Inc. & Franke Kindred Canada provided the testing apparatus and had no role in the design [of the test].*

* See full report: Livingston, S., Cadnum, J., Gestrich, S., Jencson, A., & Donskey, C. (2018). Efficacy of automated disinfection with ozonated water in reducing sink drainage system colonization with *Pseudomonas* species and *Candida auris*. Infection Control & Hospital Epidemiology, 39(12), 1497-1498. doi:10.1017/ice.2018.176

1. Scott Livingston, BA1,2; Jennifer L. Cadnum, BS 1; Annette L. Jencson BSMT, CIC1; Scott Gestrich, MD1; & Curtis J. Donskey, MD1,21Research Service, Cleveland VA Medical Center, Cleveland, Ohio2Case Western Reserve University School of Medicine, Cleveland, Ohio

Products shown above, clockwise from top left: EXOS electronic soap dispenser (EXOS625W), generic glove dispenser, EXOS towel dispenser (EXOS600W), EXOS Waste bin (EXOS605W), and Medi-flo hand hygiene sink (HWSS2321W-00).

FRANKE TAKES ACTION

A FRANKE INNOVATION

Considering proper handwashing techniques are often overlooked, Franke set a goal to drastically improve the effectiveness of hand-washing, regardless of hand hygiene practices. To achieve this, the water flowing through a Franke sink would need to eliminate the growth of biofilms in the waste and plumbing, and minimize the spread of germs and bacteria beyond the sink drain. A revolutionary sink design was created for patient care rooms. It is called **Medi-flo**.

THE OPTIMAL SINK DESIGN

medi-flo

Franke designed a sink to improve hand hygiene and reduce the spread of infections in hospitals. Medi-flo dispenses ozonated water in a laminar flow stream into a perfectly engineered sink designed to reduce splashing onto nearby surfaces.
Ozonated water disinfects the drain with every use, preventing the spread of biofilms in the sink and waste. Time-kill studies* show how the ozone technology used in Franke's Medi-flo design safely kills *Legionella*, *C. difficile*, *Pseudomonas*, and even the superbug *Candida auris*.

MEDI-FLO
Features & Benefits

THE TECHNOLOGY: OZONE AND LAMINAR FLOW

❶ Franke's ozonated water supply safely improves the effectiveness of handwashing. It does this by dispensing ozonated water in a **laminar flow stream** which helps kill bacteria on your hands and keeps the sink and waste free of harmful bacteria and biofilms. The water stream **transmits light** like a fibre-optic cable which Franke incorporated as a means for **user feedback**. The light operates in tandem with the ozone generator hidden behind the sink. A stunning **illuminated water stream** is both pleasing to the eye and signals that **ozonated water** is being dispensed. Recommended for areas with normal water conductivity with a minimum of 75 TDS. If unaware of your local water conductivity, Customer Service can calculate this for you.

Model:
HWSS2321W-00

cUPC®

SPLASH CONTAINMENT

❷ Sink bottom sloped positively to be **free draining** and eliminate pooling.

❸ Integral centre rib helps divert water to **prevent** splashing.

❹ 9" [229mm] deep, rounded inner bowl helps **contain splashing** within the unit, providing staff and patients with a safe contact surface.

INTERACTIVE

❺ **Infrared control** strategically placed inside the sink bowl will automatically trigger water flow when the user has placed their hands inside the sink to wet their hands. After a **20 second lathering time**, the water will turn back on, signalling to the user that they have lathered for the recommended length of time.

20 second lather time

ACCESSIBLE

❻ This sink is wheelchair accessible and the removable shroud serves to protect the knees of people using a wheelchair. The shroud also conceals plumbing connections adding to the design aesthetic.

ATTRACTIVE DESIGN

❼ Gently **contoured features** invoke a residential feel and yet at the practical level directs water into the seamless waste. This Franke design is not only beautiful, but adheres to strict infection control standards. Robust, bright white Miranit™ (see page 30) mineral composite has a smooth, non-porous surface which makes it easy to clean and maintain.

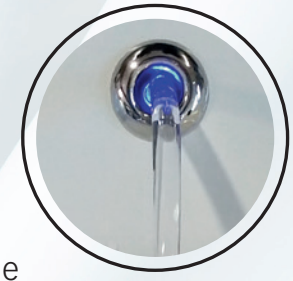
CERTIFICATIONS
UL 1951, 2nd Edition, UL Standard for Safety Electric Plumbing Accessories.
UL 979, 2nd Edition, Standard for Water Treatment Appliances.
ASME A112.18.1-2018/CSA B125.1-18, Plumbing Supply Fittings.
OSHPD approved in California.

THE SCIENCE BEHIND MEDI-FLO

Ozone Technology: Using a specialized type of electrolysis, Medi-flo reconstitutes the incoming water molecules into mixed oxidants, including dissolved ozone. Ozone is an oxidizer and a powerful natural disinfectant. It is more than twice as effective as bleach, kills bacteria 3,000 times faster than bleach, and is non-toxic and eco-friendly. Ozonated water is generated on demand since ozone molecules only remain active for a short time and, therefore, cannot be stored. These ozonated molecules pierce through bacteria, killing them in seconds.

Illustration of ozone molecule

Laminar Flow Technology: Laminar flow does not merely indicate the absence of aeration. In a true laminar flow stream the motion of the fluid particles is orderly with all particles moving in straight lines. When laminar flow is achieved, the stream is turbulence-free, and splashing is dramatically reduced. Additionally, the water stream can transmit light, similar to a fiber optic cable. Medi-flo incorporates a blue LED into the design to enhance the hand-washing experience.



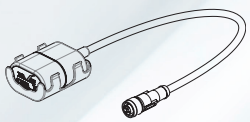
Laminar flow &
blue user feedback light

OZONE PRODUCT OPTIONS/ACCESSORIES

IWC2104

AC01-005

MEDI-MIX



AT00-024

AT17-104-6V

MODEL	DESCRIPTION
IWC2104	Optional in-wall carrier for Medi-flo
AC01-005	Optional hand-held programmer for Medi-flo and Ozo-flo

MODEL	DESCRIPTION
MEDI-MIX	Optional mixing valve for Medi-flo & Ozo-flo
AT00-024	Battery back-up for Ozo-flo faucets
AC17-104-6V	Replacement solenoid valve for Medi-flo & Ozo-flo

Featured model HWF23

THE NEXT EVOLUTION IN HAND HYGIENE: OZO-FLO

RETROFIT OZONE FAUCET

Franke now incorporates Medi-flo's germ-busting technology into a **retrofit ozone faucet**. Ozo-flo faucets dispense germ-killing water **on-demand.** Creating ozone on-demand **is imperative** since ozone reverts to its simple water state within a short time. The remaining **mixed oxidants** continue working, but they too dissipate over time. Ozo-flo brings **cutting-edge** technology into any critical, **high-traffic areas** where disinfection matters most. Provide safe, effective handwashing for **peace of mind** for your staff, clients, and community.

DESIGN CHOICES

Simply replace any existing wall-mount ❶ or deck-mount ❷ faucet with one of three touch-free **stainless steel** Ozo-flo designs for a bacteria-free and biofilm-free sink drain, and optimal hand hygiene.

ENCLOSED HARDWARE

The stylish wall-mounted **housing** ❸ contains all the technology and installs under or near the sink. Simply connect to a **water supply** and a **power supply**. It's the perfect solution where existing sinks can't be replaced, but the need for infection-prevention is high, such as patient room lavatories or emergency room washrooms.

Products shown above, clockwise from top left: Grab bar (QC-1W-24P), Ozo-flo retrofit faucet (HWF43), Rodan paper towel dispenser (RODX630), and Rodan waste bin (RODX605E).

OZO-FLO FAUCET SPECIFICATIONS

Ozo-flo handwash faucets are ideal for new or retrofit applications where existing handwash sinks can benefit from ozone technology. Faucets are fabricated of **type 316 stainless steel** and feature a blue **illumination ring** indicating ozonation cycle's activation. Ozo-flo faucets are available in a choice of 3 styles; straight, angled, and curved. The stainless **steel faucet body** is polished to a **high lustre** and with a choice of **deck or wall mounting**. 5 litre/1.32 US gallon per minute **laminar flow** rate. Pre-programmed features include: a **20-second lather timer** for optimal handwashing, a **post-wash cycle** of 3 seconds washes soap residue and bacteria down the sink, and a daily **purge cycle** to prevent water from stagnating in the drain lines and traps, ensuring **continuous waste disinfection**.

Wall-mounted housing conceals the **ozone generator, electronic controls,** and **plumbing connections**. In the event of a power failure, our **recommended battery backup** component (AT00-024) will ensure the faucet will continue to dispense water (excluding the ozonation) until power is restored.

Recommended mixed water temperature is between 27-35°C, recommended for use in areas with normal water conductivity with a minimum of 75 TDS. If unaware of your local water conductivity, please contact Customer Service to calculate this for you.

CERTIFICATIONS: UL 1951, 2nd Edition, UL Standard for Safety Electric Plumbing Accessories.UL 979, 2nd Edition, Standard for Water Treatment Appliances.ASME A112.18.1-2018/CSA B125.1-18, Plumbing Supply Fittings.

HWF05

HWF23

HWF43

HAND HYGIENE SOLUTIONS

Intensive care units are the heart of every healthcare facility. They're also a key location in the battle to control infection. Placing properly designed, Canadian Z8000-compliant handwash basins provide protection for vulnerable ICU patients, staff, and visiting families.

Antimicrobial, Saniguard® coated, open waste, recommended for use with laminar flow faucet, meets CSA standards in Canada.

Topmount (or undermount) medical handwash sink with offset waste

Ozo-flo retrofit faucets

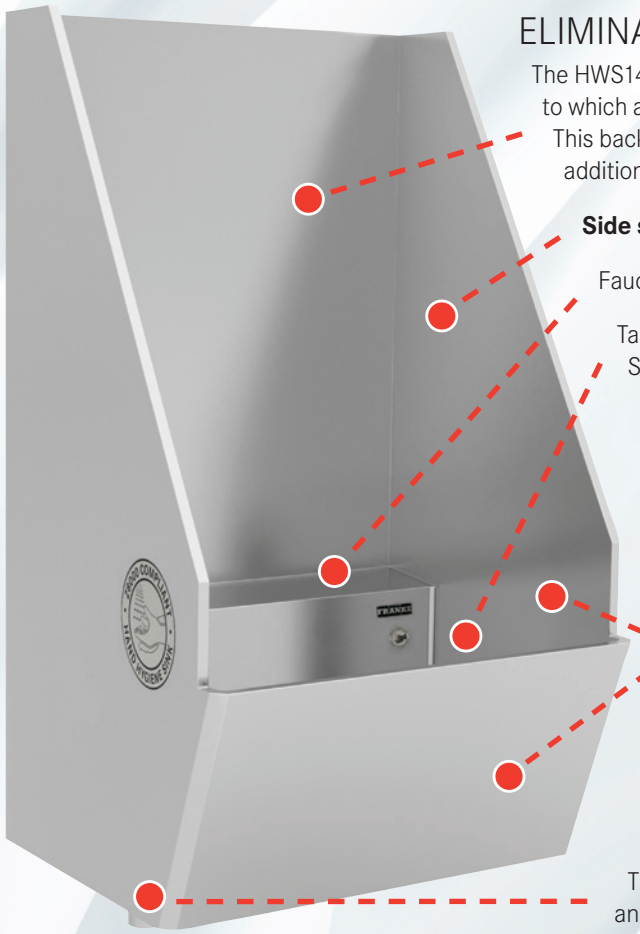
MODEL	DESCRIPTION Measurements are approximate
HWS1420P-00	21 × 19 × 38" (W × L × H)
HWS1414P-00	15 × 19 × 9" (W × L × H)
HWSS1518P-00	15 × 18 × 29" (W × L × H)
AWHB1414P-00	14 × 18 × 15" (W × L × H)
HWS6810P-3	20 × 22 × 10" (W × L × H)

MODEL	DESCRIPTION
HWS0610P-3	20 × 22 × 10" (W × L × H)
AHWSS1720W-00	Nightingale Miranit™ handwash sink
HWSS2321W-00	Medi-flo Miranit™ Hand Hygiene Ozone sink
HWF-43, HWF-05, or **HWF-23**	Ozone retrofit faucet, gooseneck, straight or angled, each with shroud

STAINLESS STEEL HAND HYGIENE SINK
Features & Benefits

CREATED OF ROBUST STAINLESS STEEL

Rugged stainless steel makes an incredibly strong yet **lightweight** product. Our sinks are **100% recyclable** and made of a minimum of **70% recycled stainless steel**. It's the right choice. The ability to inhibit the growth of bacteria on its surface is the reason why this is a supremely **hygienic material**. Maximum infection protection can be obtained by the addition of SANIGUARD® - our **protective proprietary stainless steel coating**.



Featured model: HWS1420P-00

CONTAINS SPLASHING AND ELIMINATES FREE-STANDING WATER

The HWS1420P-00 comes complete with a 26½" (673 mm) high **backsplash** to which a soap dispenser and paper towel dispenser would be mounted. This backsplash also negates the need for an additional splashguard mounted behind the sink.

Side splash guards prevent water from splashing outside the sink unit.

Faucet ledge is **sloped** to reduce free-standing water.

Target area for handwashing to **contain** splashing water within unit. Sink depth is 10" (254 mm).

Inside bottom of sink is positively sloped for **drainage**.

ELIMINATES AREAS ON WHICH BACTERIA CAN GROW

The sink is coated with an **antimicrobial surface treatment** called SANIGUARD®, which incorporates silver ion technology to help reduce the spread of harmful bacteria. SANIGUARD® is applied to the sink by a powder coating process.

The sink is designed with no concealed areas, allowing for **easy cleaning** and maintenance of exposed surfaces. This further eliminates areas for harmful bacteria to collect.

The sink also incorporates a superior **waste design**. The waste is an integral 1 ½" waste (DN40) hole with an integrally welded tailpiece that will not accept a standard waste plug, virtually eliminating an area for bacteria to collect. The waste is positioned in the left-rear so that water does not splash directly into the waste.

EASY AND EFFICIENT TO INSTALL

A separate wall carrier is **not required** for installation. It is quick and easy; perfect for multiple room installations.

cUPC®

THE NIGHTINGALE SERIES BY FRANKE
Hand Hygiene Sinks

Infection prevention meets smart design. The Nightingale series by Franke is engineered for the unique needs of North American healthcare facilities. From patient rooms to intensive care units, waiting rooms to visitors' spaces, the Nightingale series are the ideal hand hygiene sink for hospitals, clinics, doctors' offices, treatment rooms, dentist offices, and more.

A functional, wheelchair accessible design for every patient room. Franke includes the shroud with every sink model to conceal the plumbing fixtures and provide a safe experience for wheelchair users.

Made with Franke Miranit™*, a robust, pore-free material that is easy to clean and ultra-hygienic. Its splash control features help keep water inside the sink basin; the raised center rib and 9" deep offset drain ensure water doesn't splash onto nearby surfaces. (*learn more about Franke Miranit™ material on page 30)

The Nightingale Series of hand hygiene sinks is named in honour of the iconic Florence Nightingale, whose nursing theories jumpstarted sanitation as a necessary part of infection prevention.

Through her philosophies, Nightingale had a significant impact in shaping the evolution of healthcare over the last 150 years. Her vision and legacy live on to this day.

THE NIGHTINGALE SERIES OF HAND HYGIENE SINKS
Make handwashing a wonderful experience

NEW

AHWSS1720W-T
cUPC®

AHWSS1720W-G
cUPC®

AHWSS1720WIS-00
cUPC®

WHEELCHAIR ACCESSIBLE
Accessible to persons using a wheelchair, meets ADA, CSA B651-04 , and ANSI A117.1 standards. Check local codes to ensure compliance.
Nightingale sinks are cUPC certified and are compliant with CSA B45.5-11/IAPMO Z124-2011. Meet and exceed various national healthcare standards (ie. CSAZ8000, CSAZ317.1-16).

SPLASH-CONTROL FEATURES
Splash control features help prevent water from splashing out of the sink onto nearby surfaces. A center anti-splash rib, offset waste with removable cover, and 9" deep drain help keep water contained within the sink.

ROBUST CONSTRUCTION
A solid-surface sink made with robust Franke Miranit™ mineral composite material (see Miranit info, p29). A 21" wide wall space required for installation.

SINK MODEL OPTIONS
AHWSS1720W-00, sink only
AHWSS1720W-T, sink with temperature adjustable faucet (HHF23T)
AHWSS1720W-G, sink with gooseneck faucet (HHF49G) (MIX-LF mixing valve sold separately)
AHWSS1720WIS-00, sink with integrated laminar flow spout (MIX-LF mixing valve sold separately) (available Q3 2021)

OPTIONAL ACCESSORIES
IWC2203, universal in-wall carrier
MIX-LF, temperature control mixer

FAUCET FEATURES
AC or DC powered, or AC with battery backup
Hands-free operation
Available in 2 styles, as well as low flow
Laminar flow for splash reduction
Certified to ASME A112.18.1/CSA B125.1

Faucets also available separately.

HHF23T
Faucet is temperature-controlled by user
1.32 gpm / 5lpm

HHF49G
Gooseneck single-temperature faucet
1.05 gpm / 4 lpm

INTEGRATED
Hands-free spout on AHWSS1720WIS-00
1.05 gpm / 4 lpm

BARIATRIC/MENTAL HEALTH SOLUTIONS

The ideal wash place solution for therapeutic environments. These products are designed for high security and bariatric applications. The techniques employed for their design and construction are unique and unrivaled in the field of ballistic armour. They feature excellent impact-resistance, and their design prohibits ligature binding. The unique features suit both high- and low-risk mental health units, prisons, police cells, and other custodial applications. The high-grade polyester gel coat finishes have a gloss finish similar to that of porcelain, providing an attractive domestic appearance.


VR01-037


VR01-054


VR01-055

VR01-068


VR01-069


VR01-090


VR01-091

MODEL	DESCRIPTION
VR01-037	Shatter-proof mirror with bottom/top shelf
VR01-054	Towel/garment hook, ligature-resistant
VR01-055	Toilet roll holder, ligature-resistant
VR01-068	Ligature-resistant grab bar, 17 3/4"

MODEL	DESCRIPTION
VR01-069	Ligature resistant-grab bar, 23 5/8"
VR01-090	Integrated Basin, dual temperature
VR01-091	Integrated Basin, single temperature

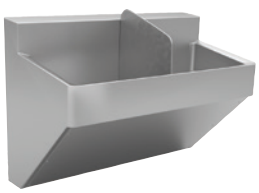
SURGICAL SCRUB STATIONS

Protection for hospitals where it is needed most. When it comes to hospital procedure rooms, only a sterile environment is a safe environment.
Franke has specially designed scrub station sinks to meet the specific needs of the operating room. Larger fixtures allow surgeons, physicians, and nurses to conduct a thorough scrubbing up to the elbows before entering the operating theatre and coming into contact with patients, reducing the risk of post-procedure infections.

Measurements are approximate

Premium 16 gauge stainless steel
Sloped rim to prevent standing water
SANIGUARD® Product Protection

SSU1-2016-00
16×20×28"
(W × L × H)



SSU2-2040-00
40×20×40"
(W × L × H)

18 gauge stainless steel
Offered as a stand-alone or as a bundle with faucet, mixing valve and hands-free soap dispenser for each wash place

SSU1-00
30×23×26"
(W × L × H)
1 wash place

SSU2-00
60×23×26"
(W × L × H)
2 wash places

SSU3-00
90×23×26"
(W × L × H)
3 wash places

Shown: Wall mount paper towel dispenser and waste bin (RODX602), hand wash basin (WHB5222-7), and manual pump soap dispenser (SD80V).

SEMI-PUBLIC & PATIENT WASHROOM SOLUTIONS

Low-maintenance, elegant designs for public spaces. Creating a sense of order and hygiene in restrooms can be achieved in part with the right fixtures. Franke offers rugged, stable plumbing fixtures, specifically designed to stand up to a busy healthcare facility's demands.

Maximum reliability with minimal maintenance makes for smart fixture choices that will serve the needs of both users and facility operators..

Vanity basins available in Canada only.


V1418-5 V1821-5-1 V17-5


WHB2221


WHB5222-7


RODX602


RODX605


RODX611


RODX672

MODEL	DESCRIPTION
V1418-5	Vanity basin-oval
V1821-5-1	Vanity basin-ledge back
V17-5	Vanity basin-round
WHB2221	Designer handwash basin
WHB5222-7	Dual station designer handwash basin

MODEL	DESCRIPTION
RODX602	Wall mount waste bin/towel dispenser
RODX605	Wall mount waste bin
RODX611	Sanitary towel and disposal bin
RODX672	Toilet paper roll dispenser

LABORATORY SOLUTIONS

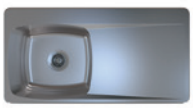
When controlled conditions are a must in the laboratory, trust Franke Type 316 sinks.

Presenting a range of sinks specifically-designed to meet the rigorous demands of the laboratory. Constructed from corrosion-resistant type 316 stainless steel, they can withstand the harshest of conditions. Easy to clean, sturdy, versatile, and resistant to acids and harsh chemicals.

Custom sinks are also available to meet any design requirements.

OC6-316

S6410-316PCB-1



LBSDBR6810-316P-1

ALBS6805-316P-1

LBD6410-316PCB-1

D6410-316PCB-1

MODEL	DESCRIPTION
OC6-316	Single bowl test tube sink
S6410-316PCB-1	Type 316 topmount single bowl sink
LBSDBR6810-316P-1	Single bowl drainboard sink with ledge

MODEL	DESCRIPTION
ALBS6805-316P-1	Type 316 topmount single bowl
LBD6410-316PCB-1	Type 316 topmount double bowl sink w/ ledge
D6410-316PCB-1	Type 316 topmount double bowl sink

CAFETERIA & KITCHEN SOLUTIONS

Franke provides safe solutions for food-handling areas. Franke has a long-standing record as a provider of stainless steel solutions for commercial kitchens. We know this industry's standards and requirements inside and out. Franke offers an extensive range of scullery sinks in single, double, and triple bowl configurations to stand up to the demands placed in high volume kitchens and cafeterias.

Our product line includes paper towel dispensers, soap dispensers, and handwash sinks, enabling us to provide optimal solutions for handwashing, and for cleaning kitchen utensils, pots, and pans.

LBS6808-1

LBD6408-1

T6410PCB-1

TL2454-5

RODX600

RODX625

RODX605

MODEL	DESCRIPTION
LBS6808-1	Topmount single with faucet ledge
LBD6408-1	Topmount double with faucet ledge
T6410PCB-1	Topmount triple bowl, 18 Gauge

MODEL	DESCRIPTION
TL2454-5	Radius coved corner scullery
RODX600	Paper towel dispenser
RODX625	Soap dispenser
RODX605	Wall mount waste bin

UTILITY ROOM & JANITORIAL ROOM SOLUTIONS

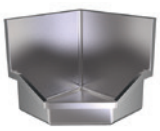
The keepers of clean. Utility or janitorial spaces are a hub within any building, playing a key role in infection prevention. Tools, from mops to cloths to floor polishers make their way into multiple spaces - proper cleaning of these tools of the trade help to prevent the spread of infection. Franke offers a range of stainless steel sinks that provide a robust option for janitorial spaces. Choose Franke stainless steel sinks for a lifetime of service.

Products shown below represent a fraction of the range offered for janitorial and restaurant applications. Consult Franke Commercial catalogue or website for more information.

SL2424-1

DL2448-1

WSS6713



FSSO2210-316-1

MODEL	DESCRIPTION
SL2424-1	16 gauge scullery sink, easy clean radius coved corners front and back, single bowl
DL2448-1	16 gauge scullery sink, easy clean radius coved corner construction, double bowl

MODEL	DESCRIPTION
WSS6713	Wall mounted service sink, 14 gauge, easy clean radius coved bowl corners
FSSO2210-316-1	Corner installation mop sink with drop front to facilitate easy drainage of power driven floor maintenance equipment

WATER COOLERS IN PUBLIC AREAS

ONLY

Hydration, purity, and sustainability are the cornerstones of safe drinking water. In the hustle and bustle of a healthcare facility, we are the hydration oasis. We are the wardens of contaminants, locking away - or eradicating - what should never get through. We promote the sustainable use of water. We cool and purify drinking water with minimum burden on the power grid.

KEM8-SBF-STN

KEMW8EBQ-STN

KEM8SCPM-STN

KEP8AC-EBQ-STN

KEP8ACSL-EBF-GRY

KEPWEBQ

F036930

F037116-101

MODEL	DESCRIPTION
KEM8-SBF-STN	Recessed bottle filler / 8 gallons per hour chilled drinking fountain
KEMW8EBQ-STN	Quasar electronic bottle filler, 8gph
KEM8SCPM-STN	Split level 8gph chilled drinking fountain
KEP8AC-EBQ-STN	Quasar electronic bottle filler/fountain, 8gph
KEP8ACSL-EBF-GRY	Graystone electronic filler/fountain, 8gph, anti-microbial push pads

MODEL	DESCRIPTION
KEPWEBQ	Quasar retrofit bottle filler with UVC LED technology
F036930-001	Galaxi filter kit for KEP universal series
F036930-002	Galaxi filter kit for KEM modular series
F037116-101	Replacement Galaxi filter cartridge only

QUASAR UVC-LED WATER TREATMENT
Features & Benefits

NEW

ONLY

SANITIZING UVC-LED TREATMENT DISINFECTS WATER AS IT'S DISPENSED

This mercury-free, ultraviolet light (UVC) incorporates the "C" frequency of light to combat germs with the aid of the light emitting diode. A built-in 100 micron strainer stops particles before they enter the waterway. UVC-LED also cycles on periodically to keep the **dispensing outlet** sanitized between activations.

REDUCES 99.99% OF PATHOGENS

Effective against *Legionella*[1], *Cryptosporidium*[2], *Giardia*, *E. coli* and other waterborne pathogens. The genus *Legionella*[1] is a pathogenic group of Gram-negative bacteria.

ANTIMICROBIAL FEATURES

Hands-free bottle filler components contain Freshield®, which utilizes a silver-based antimicrobial compound to protect the surfaces from discolouration, odours and degradation caused by the growth of micro-organisms and mildew.

Fountain has four antimicrobial copper push pads to activate the manual flow of water for the cooler.

Basin is designed to eliminate splashing and standing water.

WATER SAVING BUBBLER

Water saver bubbler reduces waste water by 50% and has a flexible guard. It operates between 20 and 100 PSI.

HANDS-FREE FILLER WITH BOTTLE COUNTER

Bottle filler is activated once bottle is placed within the dispensing location. It features a 20-second shut off, integrated bottle counter and filter monitor.

1. ("*Legionella*, From Wikipedia, the free encyclopedia", n.d.)
2. ("*Cryptosporidium*, From Wikipedia, the free encyclopedia", n.d.)
Cryptosporidium[2] is a genus of apicomplexan parasitic alveolates that can cause a respiratory and gastrointestinal illness (cryptosporidiosis) that primarily involves watery diarrhea (intestinal cryptosporidiosis) with or without a persistent cough (respiratory cryptosporidiosis) in both immunocompetent and immunodeficient humans.

Featured model: KEP8AC-EBQ-STN

LEAD FREE NSF cUPC®

Shown: HWS1821-I-3 with faucet (HHF49G), soap dispenser (SD01-002CFL), hands free paper towel dispenser (RODX630)

STAND-ALONE HAND HYGIENE STATION

Additional hand hygiene capacity is paramount in public and semi-public spaces. Free-standing handwash station with gooseneck faucet and soap dispenser. Shown with optional backsplash, paper towel dispenser, and waste bin. Customizable and elegant, a truly versatile solution for hand hygiene.

HWS1821-I-3
with additional options

	ADDITIONAL OPTIONS FOR HWS1821-I-3	ACCESSORIES DESCRIPTION
1	SD80V	Deck mounted top fill manual soap dispenser
	SD01-002CFL	Aqua-foam hands-free pillar soap dispenser, polished stainless
	SD01-003CF	Aqua-foam hands-free curved soap dispenser, polished stainless
2	HHF49G	Gooseneck battery operated faucet, chrome finish
	HHF23T	Temperature adjustable battery operated faucet, chrome finish
	RODX600	Rodan paper towel dispenser
3	RODX630	Rodan hands free paper towel dispenser (battery operated)

STAND ALONE HAND HYGIENE SINK
Features & Benefits

NEW

CREATED OF ROBUST STAINLESS STEEL

Rugged stainless steel makes an incredibly strong yet **lightweight** product. The ability to inhibit the growth of bacteria on its surface is the reason why this is a supremely **hygienic material**.

INCREASED CAPACITY FOR HAND HYGIENE

FWHBS181908-3 is a robust and hygienic option to increase handwashing capacity in public spaces. Choose from a number of hands-free accessories for added functionality.

The optional bolt-on **backsplash** (MHW-BS) is perfect for mounting a paper towel dispenser (if it cannot be placed against a wall).

Optional **mobile caster base** (MHW-CB) makes for easy transportation and moving of the unit.

Faucet ledge can be drilled to accommodate almost any faucet or soap dispenser. Battery operated faucet available as an option for the FWHBS181908-3.

Sink depth is 8" (203mm), and inside bottom of sink is positively sloped for **drainage**.

CONFIGURE TO SUIT YOUR SPACE & NEEDS

FWHBS181908-3 is available as a base model, or add optional accessories as shown below.
Cabinet is seamlessly welded with an easy access **front panel** for maintenance.
The self-leveling **feet** on this model make it easy to adjust the unit on uneven ground.

Featured model: FWHBS181909-GS stand alone sink with optional backsplash (MHW-BS) and Rodan paper towel dispenser (RODX600)

FWHBS181908-3
base model with leveling feet

FWHBS181908-3GS
with additional options

ADDITIONAL OPTIONS FOR FWHBS181908-3	ACCESSORIES DESCRIPTION
1 RODX600	Rodan paper towel dispenser
RODX630	Rodan hands free paper towel dispenser (battery operated)
2 HHF49G	Gooseneck battery operated faucet, chrome finish
HHF23T	Temperature adjustable battery operated faucet, chrome finish
3 SD80V	Deck mounted top fill manual soap dispenser
4 MHW-BS	Stainless steel backsplash
5 RODX605	Rodan waste bin, can be mounted on left or right side
6 MHW-CB	Mobile caster base
MHW-FP	Foot pedal actuator with 2 x 6 gallon tanks (available 2021)

HAND SANITIZERS & SANITIZER STANDS
Touchless, Safe Hand Hygiene

Stainless steel hand sanitizer dispensers and sanitizer stands. The ultimate in flexibility, place them in entrances, hallways, and common areas. Franke sanitizer stands bring durability and hand hygiene together.

EXOS627X
EXOS Electronic Disinfectant Dispenser

- Wall mount assembly, can be used with Franke floor stands
- Type 304 stainless steel, with an easy to clean INOX finish
- Touch-free, infrared sensor activation
- 800 ml capacity tank with inspection window on the side
- Dispenses 0.6 to 1.1 ml of sanitizer per pump
- LED display shows battery status

RODX627H
Rodan Electronic Disinfectant Dispenser

- Wall mount assembly, can be used with Franke stands
- Type 304, 22 gauge stainless steel with satin finish
- Touch-free, infrared sensor activation
- 800 ml capacity refill tank with discrete inspection window on the side
- Front lock with Franke standard key
- Battery operated

Free-standing sanitizer stand and slim station. A small footprint and elegant design, perfectly paired with EXOS and Rodan touch-free disinfectant dispensers. Integral anti-spill drip tray keeps the area clean.

STD36
Sanitizer Stand

STD37
Sanitizer Slim Stand

RODX627H-STD36	Sanitizer stand with Rodan hand sanitizer dispenser
RODX627H-STD37	Sanitizer slim station with Rodan hand sanitizer dispenser
EXOS627X-STD36	Sanitizer stand with Exos hand sanitizer dispenser
EXOS627X-STD37	Sanitizer slim station with Exos hand sanitizer dispenser

Shown: EXOS627B sanitizer dispenser, EXOS625B soap dispenser, EXOS600B paper towel dispenser, and EXOS605B waste bin.

DESIGN-COORDINATED WASHROOM ACCESSORIES

For staff changerooms, health clinic lavatories, and semi-public washrooms. Coordinated washroom accessories in the EXOS and Rodan lines offer harmonious, modular options for design flexibility. EXOS accessories with their angular design have your choice of white or black toughened safety glass fronts and easy to clean surfaces. Rodan accessories are made from robust stainless steel to meet the demands of high traffic washrooms.

EXOS600W
EXOS600B

EXOS625W
EXOS625B

EXOS605W
EXOS605B

MODEL	DESCRIPTION
EXOS600W	Glass-front paper towel dispenser, white
EXOS600B	Glass-front paper towel dispenser, black
EXOS625W	Hands-free glass-front soap dispenser, white
EXOS625B	Hands-free glass-front soap dispenser, black
EXOS605W	Glass-front waste bin, white
EXOS605B	Glass-front waste bin, black

RODX630

RODX625

RODX627H

RODX605

MODEL	DESCRIPTION
RODX630	Hands-free paper towel dispenser
RODX625	Hands-free liquid soap dispenser
RODX627	Hands-free sanitizer lotion dispenser
RODX605	Stainless steel waste bin

INSTALL SINKS 5X FASTER WITH EZ TORQUE™

Franke EZ TORQUE™ is an innovative fastener used to secure the rim of the topmount sink ledge tight to the countertop.

EZ TORQUE™ fasteners come pre-installed on Franke topmount sinks. They secure the rim of the sink ledge tight to the countertop in just two easy steps and five times faster than conventional fasteners.

Simply drop the sink quickly and neatly into the cut-out; this simplifies and streamlines sink installation and almost eliminates the need for instructions. It is no longer necessary to read where to fasten the clips onto the sink, and missing clips are no longer an issue. The fastener's red colour makes it easy to locate inside the cabinet. Its patented and revolutionary design allows you to tighten the clips with one hand through the entire installation process.

'Drop and drill' quick installation

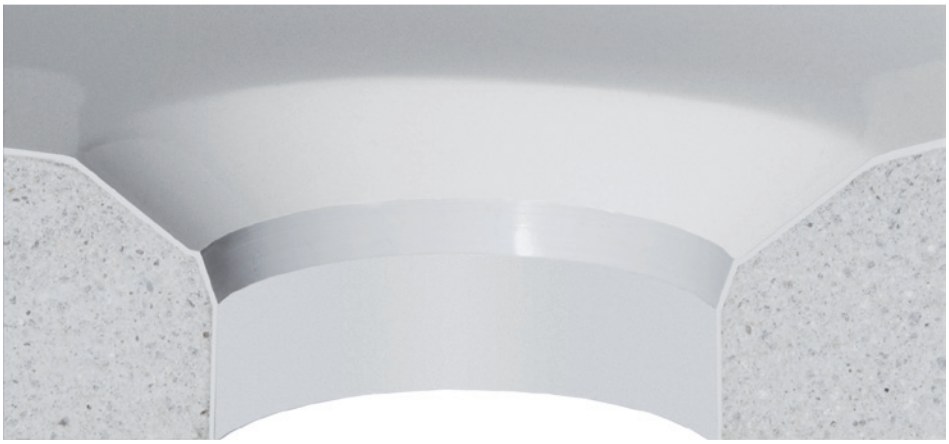
CANADA'S Z8000/Z317.1 STANDARDS EXPLAINED

Z8000 is a comprehensive design document for Canadian healthcare facilities, developed by 32 members over a 4 year period, containing evidence based design recommendations. These findings cover all aspects of healthcare design, including planning, construction and facility layout. These guidelines apply to new builds and existing facilities undergoing addition or renovation. In particular, hospitals, clinics, long-term facilities, etc. are all impacted. The impetus for this document was to help prevent the spread of healthcare-acquired infections (HAIs).

CSA Z317.1 feature special requirements for plumbing installations in health care facilities, is one of a series of Standards related to health care facility engineering. It supersedes the previous editions, published in 2009, 1999, 1988, and 1978. These symbols on Franke's literature indicate that in Canada, our products are CSA compliant.

MIRANIT™ EXPLAINED

Franke's Miranit™ material is a mineral composite. Miranit™ is a stable, impact-resistant compound consisting of natural minerals such as quartz, sandstone, and marble (in sand form) bonded together by high quality, unsaturated, polyester resin. Quartz is one of the hardest materials on earth and constitutes a large part of its crust. The final product is a non-porous, highly stable, and durable combination of these materials.



Cut-away of Miranit material

EXOS Handwash Basin
ANMW0010
ANMW0011

Medi-flo Patient Room Sink
HWSS2321W-00

Washino Trough Sink
SANW200 +
4 OTHER MODELS

Nightingale Patient Room Sink
AHWSS1720W-00
3 OTHER MODELS

MIRANIT CLEANING AND CARE

The Medi-flo sink is made of a solid composite material called Franke MIRANIT™. This smooth, pore-free surface is exceptionally easy to care for, and dirt-repellent.
In most cases, a damp cloth is entirely adequate for cleaning the handwash basin. More serious soiling can be removed with mild, non-scouring cleaners (ie. stains from coloured pencils, shoe polish, ink, iodine solution, and lipstick).
It is recommended to occasionally clean Medi-flo with a lime scale remover or a 1:1 mixture of vinegar. It is also recommended to periodically rub MIRANIT™ products with commercially available car polish and then immediately re-polish the treated surfaces for a sustained shine.

QUICK FIND GUIDE

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