

Approved Faucet and Sink Combinations

Health Authority	FHA	Implementation Data	August 16, 2019
Tested and Vetted by	Matthew Leveque (FMO) Dr. Elizabeth Brodtkin (IPC)	Revision #	Revision 2
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Authorized by	FHA IPC LMFM FMO Directors LMFM Standards Executive Director ARQTS (Asset Risk Quality; Technical Services) Director	Revision History	1. August 01, 2019 2. October 08, 2019
References	<ul style="list-style-type: none"> The British Columbia Ministry of Health's Best Practices for Hand Hygiene; 2013 CSA Z317.1 (Special requirements for plumbing installations in health care facilities) CSA Z8000 (Canadian Health Care Facilities – Planning, Design and Construction) 		

Purpose:

Hand hygiene is a critical part of infection prevention and control at Health Care Facilities. The design needs to work effectively and efficiently for the cleaning of hands while restricting splashing and the spread of aerosols, and is dedicated exclusively for use by health care workers for the purposes of hand hygiene. CSA Z317.1-16 and CSA Z8000-18 state requirements for appropriate design, construction, commissioning, operation and maintenance.

A “[Best Practices for Hand Hygiene](#)” document has been created by the British Columbia Ministry of Health to also assist in recommendations for hand hygiene in healthcare settings and programs.

At Fraser Health, Facilities Maintenance Operations in co-operation with Infection Prevention and Control, have designed a set of testing procedures to help identify sinks that meet a specific set of criteria for use in Health Care Facilities within the Fraser Health Authority. These testing procedures identify a tested and vetted faucet and sink combination that *should* be used. The testing and vetting procedures used by FHA FMO and IPC *should* be used for all future faucet and sink combination considerations, so long as the testing procedures remain valid.

These guidelines *should* be used to support the selection process of a faucet and sink design for each hand hygiene sink location in all types of healthcare facilities. ***In the tables below each faucet and sink heading have links which will take you to the manufactures website for that specific product. Please click on the name of the faucet or sink you wish to view for that products information.***

Next to the sinks listed in Tables 1, 2 and 4 are a rating based on a table which you can find on page 49 of the Ministry of Health's Best Practices for Hand Hygiene as well as recommendations made by FHA FMO and IPC regarding the use and applications of these 5 sinks which do not meet the CSA Z317.1-16 and Z8000-18 requirements.

Scope:

It is recommended that this standard *should* be applied to *all health care facilities* across the Fraser Health Authority.


Link:

Details, including a table of reference for each faucet and sink are found on the [FMBOK site](#) in SharePoint. Please click “FHA Faucet and Sink Guideline”. If you don't have access to the FMBOK site, please contact Allan Yu at this email address Allan.Yu@fraserhealth.ca

Contents


Glossary of Terms:	3
Table 1: Approved parts combinations for Lavatory Sinks in an Ensuite.....	5
Sink A.....	5
American Standard Murro 0954004EC (less overflow)	5
Sink B.....	5
Willoughby Industries BHS-3123.....	5
Sink C.....	6
Corian 810P and 815P	6
Table 2: Approved parts combinations for Hand Hygiene Sinks.....	6
Sink D	6
American Standard Lucerne (Less Overflow).....	6
Sink E	9
American Standard ICU Sink 9118.111	9
Table 3: Approved parts combinations for Z8000 Hand Hygiene Sinks.....	12
Sink F	12
CLASS 1 Smartflo3	12
Sink G	12
Franke HWSS2321W-00 (Medi-Flo3)	12
Sink H	13
Franke HWS141P-00	13
Sink I	13
Franke HWSS1518P-00.....	13
Sink J.....	14
Whitehall Infection Prevention Sink 4151-H34.....	14
Sink K.....	14
Whitehall Infection Prevention Sink 4151-H1.....	14
Sink L	17
Whitehall Infection Prevention Sink 4150-VF	17
Sink M.....	17
Willoughby Industries WICS-2222.....	17
Table 4: Approved parts combinations for Lavatory Sinks in patient area washrooms	21
Sink N	21
American Standard Murro 0954004EC (less overflow)	21
Sink O	23
Corian 810P and 815P	23


Glossary of Terms:

- 1)  - BCBC Handicap Code Compliant
- 2) **Aerator**- Is the process by which air is circulated through, mixed with or dissolved in a liquid by means of attaching a device to the end of the spout.
- 3) **BCBC**- British Columbia Building Code
- 4) **Center Set**- Single control faucets (also called “monoblock”) offer. ... Two handle faucets require three holes in the sink top: the center one for the spout and the two outside holes for the hot and cold water control handles. Generally, a 4-inch center set or 8-inch widespread faucet is used on a three hole sink.
- 5) **Deck Mount Faucet**- A deck-mounted faucet is one that mounts on a horizontal surface, such as a sink or a countertop
- 6) **Electronic Faucet**- An automatic faucet or tap (also hands-free faucet, touchless faucet, electronic faucet, motion sensing faucet, sensor faucet, or infrared faucet) is a faucet equipped with a proximity sensor and mechanism that opens its valve to allow water to flow in response to the presence of a hand or hands in close proximity
- 7) **Ensuite**- A washroom that immediately joins a bedroom and forms part of the same set of rooms.
- 8) **Faucet**- A device by which a flow of liquid or gas from a pipe or container can be controlled; a tap
- 9) **Gooseneck**- A long vertical spout terminating at a 180° bend with various ends i.e.; Laminar flow, laminar spray, aerator or surgical end
- 10) **GPM**- Gallons Per Minute
- 11) **Hand Hygiene**- A general term referring to any action of hand cleaning. Hand hygiene relates to the removal of visible soil and removal or killing of transient microorganisms from the hands. Hand hygiene may be accomplished using an alcohol-based hand rub or soap and running water. Hand hygiene includes surgical hand antisepsis.
- 12) **Hand Hygiene Sink**- A sink dedicated for hand hygiene and no other purpose. Constructed of a non-porous material such as porcelain, Corian®, enamel, vitreous china, or 18 + gauge stainless steel. The design should prevent splashing back that may contaminate hands or faucet. The minimum depth recommended by CHICA- Canada Healthcare Facility Design position statement is 225mm; the minimum inside dimension should be 350mm by 250mm and without an overflow.
- 13) **Laminar Flow**- Smooth, orderly movement of a fluid, in which there is no turbulence, and any given sub-current moves more or less in parallel with any other nearby sub-current.

- 14) Lavatory Sink-** A sink dedicated for patient or public use. Constructed of a non-porous material such as porcelain, Corian®, enamel, vitreous china, or 18 + gauge stainless steel. The design should prevent splashing back that may contaminate hands or faucet. The sink must meet BCBC handicap compliancy and wall mounted, 510mm long by 685mm wide. The minimum depth recommended by CHICA- Canada Healthcare Facility Design position statement is 225mm; the minimum inside dimension should be 350mm by 250mm and without an overflow.
- 15) Manual Faucet-** A faucet operated by a cold & hot handle and is turned on and off by the operator.
- 16) Mixing Valve-** Is a valve that blends hot water with cold water to ensure constant, safe shower and bath outlet temperatures, preventing scalding.
- 17) Patient Washroom-** Any washroom which is not an ensuite and is located outside of a Patient room in a common area.
- 18) P-Trap-** A P-trap is a plumbing fixture that has several purposes. It traps debris that has drained from the sink and prevents it from forming a clog deep within the plumbing system, and to stop sewer gases from passing into the room.
- 19) Wall Mount Faucet-** A wall mount faucet is one that mounts on a vertical surface, such as a scrub sink of Franke Z8000 compliant sink.
- 20) CSA Z8000 Canadian Health Care Facilities - Planning, Design and Construction-** The design and construction of hospitals, medical offices and other health care facilities is a critical element in the continued delivery of quality healthcare in Canada.

Table 1: Approved parts combinations for Lavatory Sinks in an Ensuite

Sink A	American Standard Murro 0954004EC (less overflow)		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation - Approved for patient ensuite only				
<i>Manual Faucets (pick one)</i>		<i>Mixing Valve (pick one)</i>		<i>P-Traps and Tail Pieces (pick one)</i>
Moen 8279		Bradley Mixing Valve S59-4000BY		Mountain MT3140 Copper 1 ¼" P-Trap
Moen 8285	gooseneck option S0030	Leonard 170A-LF-BP		OS&B 110XBDCP 1 ¼" P-Trap
T&S B-0892-QT-VF05		WATTS LFUSG-B-M2		OS&B 3737WC 1 ¼" Offset Lavatory Drain
Zurn Z812B4-XL (1.5 GPM Internal disc Only)				

Sink B	Willoughby Industries BHS-3123		Best Practices for Hand Hygiene rating Appendix A	B I
FHA recommendation - Approved for bariatric ensuite only				
<i>Manual Faucets (pick one)</i>		<i>Mixing Valve (pick one)</i>		<i>P-Traps and Tail Pieces (pick one)</i>
Chicago 201-ADB6AE3-317AB		Bradley Mixing Valve S59-4000BY		Mountain MT3140 Copper 1 ¼" P-Trap
Chicago 895-317GN2AE65VPAB		Leonard 170A-LF-BP		OS&B 110XBDCP 1 ¼" P-Trap
Chicago 1100-GN2AE35-317AB		WATTS LFUSG-B-M2		OS&B 3737WC 1 ¼" Offset Lavatory Drain
Moen 8279				
Moen 8285	gooseneck option S0030			
T&S B-0892-QT-VF05				
T&S B-1142-04		Note: gooseneck option GN2FCJKABCP is available for Chicago Faucets models 201, 895 and 1100.		
Zurn Z812B4-XL (1.5 GPM Internal disc Only)				
Zurn Z871B4-XL (1.5 GPM Internal disc Only)		Note: Moen 8285, T&S B-1142-04 and Zurn Z871B4 are an 8" center set.		






Sink C	Corian 810P and 815P		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation - Approved for patient ensuite only				
Manual Faucets (pick one)		Mixing Valve (pick one)	P-Traps and Tail Pieces (pick one)	
Chicago 201-ADB6AE3-317AB		Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	
Chicago 895-317GN2AE65VPAB		Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
Chicago 1100-GN2AE35-317AB		WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
Moen 8279			OS&B 114BDCP 1 ½" P-Trap	
Moen 8285	gooseneck option S0030		OS&B 3737 1 ¼" Lavatory Drain	
T&S B-0892-QT-VF05			OS&B 3737WC 1 ¼" Offset Lavatory Drain	
T&S B-1142-04		Note: gooseneck option GN2FCJKABCP is available for Chicago Faucets models 201, 895 and 1100.		
Zurn Z812B4-XL (1.5 GPM Internal disc Only)				
Zurn Z871B4-XL (1.5 GPM Internal disc Only)		Note: Moen 8285, T&S B-1142-04 and Zurn Z871B4 are an 8" center set.		


Table 2: Approved parts combinations for Hand Hygiene Sinks

Sink D	American Standard Lucerne (Less Overflow)		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.				
Manual Faucets (pick one)		Mixing Valve (pick one)	P-Traps and Tail Pieces (pick one)	
Chicago 201-ADB6AE3-317AB		Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼” P-Trap	
Moen 8279		Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½” P-Trap	
Moen 8285	gooseneck option S0030	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼” P-Trap	
T&S B-0892-QT-VF05			OS&B 114BDCP 1 ½” P-Trap	
Zurn Z812B4-XL (1.5 GPM Internal disc Only)			OS&B 3737 1 ¼” Lavatory Drain	
Note: Moen 8285, is an 8” center set.			OS&B 3737WC 1 ¼” Offset Lavatory Drain	


Sink D	American Standard Lucerne (Less Overflow)		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.				
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required	
Chicago 116.608.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Kohler K-13462	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Kohler K-13463	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		


Sink D	American Standard Lucerne (Less Overflow)		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.				
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required	
Moen 8553 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8553AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Moen 8554 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8554AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Sloan Basys EFX-200.502.0000 (low height)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

Sink D	American Standard Lucerne (Less Overflow)		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.				
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required	
Sloan Basys EFX-6X0-X1X-00X0 (mid height)	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

Sink E	American Standard ICU Sink 9118.111		Best Practices for Hand Hygiene rating Appendix A	D II
FHA recommendation – Only to be used with approval from IPC and FMO				
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required	
Chicago 116.608.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

Chicago 116.103.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

<i>Sink E</i>	American Standard ICU Sink 9118.111		Best Practices for Hand Hygiene rating Appendix A	D II
FHA recommendation – Only to be used with approval from IPC and FMO				
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>	
Chicago 116.223.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Kohler K-13462	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Kohler K-13463	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

<i>Sink E</i>	American Standard ICU Sink 9118.111		Best Practices for Hand Hygiene rating Appendix A	D II
FHA recommendation – Only to be used with approval from IPC and FMO				
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>	
Moen 8553 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8553AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Moen 8554 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8554AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Sloan Basys EFX-200.502.0000 (low height)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		





Sink E	American Standard ICU Sink 9118.111		Best Practices for Hand Hygiene rating Appendix A	D II
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO				
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required	
Sloan Basys EFX-6X0-X1X-00X0 (mid height)	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

Table 3: Approved parts combinations for Z8000 compliant Hand Hygiene Sinks

Sink F	CLASS 1 Smartflo3 		
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Mounting Bracket
Already built into the product	No 3 rd party mixing valve required	Mountain MT3130 Copper 1 ½" P-Trap	Franke IMC2104
		OS&B 114BDCP 1 ½" P-Trap	
Note: This product to be used in UV lit rooms only			


Sink G	Franke HWSS2321W-00 (Medi-Flo3) 			
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Mounting Bracket	
Already built into the product	No 3 rd party mixing valve required	Mountain MT3130 Copper 1 ½" P-Trap	Franke IMC2104	
		OS&B 114BDCP 1 ½" P-Trap		

Sink H	Franke HWS141P-00 		
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Chicago 116.690.AB.1	Bradley S59-4000BY	Mountain MT3130 Copper 1 ½" P-Trap	Chicago Transformer 24 Volt #128
gooseneck option GN2FCJKABCP	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	
	WATTS LFUSG-B-M2		


Chicago 116.104.AB.1	Bradley S59-4000A	Mountain MT3130 Copper 1 ½" P-Trap	Chicago Transformer 24 Volt #128
gooseneck option GN2FCJKABCP	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	

Sloan ETF-500	Bradley S59-4000A	Mountain MT3130 Copper 1 ½" P-Trap	Sloan Optima Transformer 24 Volt
	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	


Toto TEL161-D10EM Eco	Bradley S59-4000A	Mountain MT3130 Copper 1 ½" P-Trap	Already included with the product
	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	


Sink I	Franke HWSS1518P-00 		
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Chicago 116.690.AB.1	Bradley S59-4000BY	Mountain MT3130 Copper 1 ½" P-Trap	Chicago Transformer 24 Volt #128
gooseneck option GN2FCJKABCP	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	
	WATTS LFUSG-B-M2		


Chicago 116.104.AB.1	Bradley S59-4000A	Mountain MT3130 Copper 1 ½" P-Trap	Chicago Transformer 24 Volt #128
gooseneck option GN2FCJKABCP	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	

Sink I	Franke HWSS1518P-00 		
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Sloan ETF-500	Bradley S59-4000A	Mountain MT3130 Copper 1 ½" P-Trap	Sloan Optima Transformer 24 Volt
	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	

Toto TEL161-D10EM Eco	Bradley S59-4000A	Mountain MT3130 Copper 1 ½" P-Trap	Already included with the product
	Leonard 170A-LF-BP	OS&B 114BDCP 1 ½" P-Trap	

Sink J	Whitehall Infection Prevention Sink 4151-H34 		
<i>Manual Faucets (pick one)</i>	<i>Mixing Valve (pick one)</i>	<i>P-Traps and Tail Pieces (pick one)</i>	
Chicago 201-ADB6AE3-317AB	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	
Chicago 895-317GN2AE65VPAB	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
Moen 8279	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
T&S B-0892-QT-VF05		OS&B 114BDCP 1 ½" P-Trap	
Zurn Z812B4-XL (1.5 GPM Internal disc Only)		OS&B 3737 1 ¼" Lavatory Drain	


Sink K	Whitehall Infection Prevention Sink 4151-H1 		
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Chicago 116.608.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	


Sink K	Whitehall Infection Prevention Sink 4151-H1 		
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Chicago 116.103.AB.1	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
gooseneck option GN2FCJKABCP	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	


Chicago 116.223.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
gooseneck option GN2FCJKABCP	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	


Kohler K-13462	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	


Kohler K-13463	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	

Sink K	Whitehall Infection Prevention Sink 4151-H1 		
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Moen 8553 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630
Moen 8553AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Moen 8554 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630
Moen 8554AC (AC Power)	Leonard 170A-LF-BP WATTS LFUSG-B-M2	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Sloan Basys EFX-200.502.0000 (low height)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Sloan Basys EFX-6X0-X1X-00X0 (mid height)	Bradley Mixing Valve S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	

<i>Sink L</i>	Whitehall Infection Prevention Sink 4150-VF 	
<i>Manual Faucets (pick one)</i>	<i>Mixing Valve (pick one)</i>	<i>P-Traps and Tail Pieces (pick one)</i>
This is a foot pedal operated sink which includes a faucet	Not required	Mountain MT3140 Copper 1 ¼" P-Trap
		Mountain MT3130 Copper 1 ½" P-Trap
		OS&B 110XBDCP 1 ¼" P-Trap
		OS&B 114BDCP 1 ½" P-Trap
		OS&B 3737 1 ¼" Lavatory Drain
		OS&B 3737WC 1 ¼" Offset Lavatory Drain

<i>Sink M</i>	Willoughby Industries WICS-2222 		
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.			
<i>Manual Faucets (pick one)</i>		<i>Mixing Valve (pick one)</i>	<i>P-Traps and Tail Pieces (pick one)</i>
Chicago 201-ADB6AE3-317AB		Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap
Chicago 895-317GN2AE65VPAB		Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap
Chicago 1100-GN2AE35-317AB		WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap
Moen 8279			OS&B 114BDCP 1 ½" P-Trap
Moen 8285	gooseneck option S0030		OS&B 3737 1 ¼" Lavatory Drain
T&S B-0892-QT-VF05			OS&B 3737WC 1 ¼" Offset Lavatory Drain
T&S B-1142-04			
Zurn Z812B4-XL (1.5 GPM Internal disc Only)		<i>Note: gooseneck option GN2FCJKABCP is available for Chicago Faucets models 201, 895 and 1100.</i>	
Zurn Z871B4-XL (1.5 GPM Internal disc Only)		<i>Note: Moen 8285, T&S B-1142-04 and Zurn Z871B4 are an 8" center set.</i>	

Sink M	Willoughby Industries WICS-2222 		
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.			
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required
Chicago 116.103.AB.1	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Chicago 116.223.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Kohler K-13462	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	

Sink M	Willoughby Industries WICS-2222 		
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.			
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required
Kohler K-13463	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Moen 8553 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630
Moen 8553AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Moen 8554 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630
Moen 8554AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	





Sink M	Willoughby Industries WICS-2222 		
FHA recommendation – Only to be used in low risk areas with approval from IPC and FMO. For this sink an electronic faucet is preferred, if a manual faucet is required please consult IPC.			
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)	Electrical component required
Sloan Basys EFX-200.502.0000 (low height)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	
Sloan Basys EFX-6X0-X1X-00X0 (mid height)	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
		OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	


Table 4: Approved parts combinations for Lavatory Sinks in patient area washrooms

Sink N	American Standard Murro 0954004EC (less overflow)		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation - Approved for patient area washrooms				
<i>Manual Faucets (pick one)</i>		<i>Mixing Valve (pick one)</i>		<i>P-Traps and Tail Pieces (pick one)</i>
Moen 8279		Bradley Mixing Valve S59-4000BY		Mountain MT3140 Copper 1 ¼" P-Trap
Moen 8285	gooseneck option S0030	Leonard 170A-LF-BP		OS&B 110XBDCP 1 ¼" P-Trap
T&S B-1142-04		WATTS LFUSG-B-M2		OS&B 3737WC 1 ¼" Offset Lavatory Drain
Zurn Z812B4-XL (1.5 GPM Internal disc Only)				


<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Chicago 116.608.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap	
	WATTS LFUSG-B-M2	OS&B 3737WC 1 ¼" Offset Lavatory Drain	


Sink N	American Standard Murro 0954004EC (less overflow)			Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation - Approved for patient area washrooms					
Electronic Faucet	Mixing Valve	P-Traps and Tail Pieces (pick one)		Electrical component required	
Kohler K-13462	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap		Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap			
	WATTS LFUSG-B-M2	OS&B 3737WC 1 ¼" Offset Lavatory Drain			
Kohler K-13463	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap		Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap			
		OS&B 3737WC 1 ¼" Offset Lavatory Drain			

<i>Sink N</i>	<i>American Standard Murro 0954004EC (less overflow)</i>		<i>Best Practices for Hand Hygiene rating Appendix A</i>	<i>A III</i>
FHA recommendation - Approved for patient area washrooms				
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>	
Moen 8553 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8553AC (AC Power)	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Moen 8554 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8554AC (AC Power)	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap		
	WATTS LFUSG-B-M2	OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Sloan Basys EFX-200.502.0000 (low height)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap		
	WATTS LFUSG-B-M2	OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Sloan Basys EFX-6X0-X1X-00X0 (mid height)	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

Sink O	Corian 810P and 815P		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation - Approved for patient area washrooms				
Manual Faucets (pick one)		Mixing Valve (pick one)	P-Traps and Tail Pieces (pick one)	
Chicago 201-ADB6AE3-317AB		Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	
Chicago 895-317GN2AE65VPAB		Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
Chicago 1100-GN2AE35-317AB		WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
Moen 8279			OS&B 114BDCP 1 ½" P-Trap	
Moen 8285	gooseneck option S0030		OS&B 3737 1 ¼" Lavatory Drain	
T&S B-0892-QT-VF05			OS&B 3737WC 1 ¼" Offset Lavatory Drain	
T&S B-1142-04		Note: gooseneck option GN2FCJKABCP is available for Chicago Faucets models 201, 895 and 1100.		
Zurn Z812B4-XL (1.5 GPM Internal disc Only)				
Zurn Z871B4-XL (1.5 GPM Internal disc Only)		Note: Moen 8285, T&S B-1142-04 and Zurn Z871B4 are an 8" center set.		

<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>
Chicago 116.608.AB.1	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Chicago Transformer 24 Volt #128
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap	
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap	
		OS&B 114BDCP 1 ½" P-Trap	
		OS&B 3737 1 ¼" Lavatory Drain	
		OS&B 3737WC 1 ¼" Offset Lavatory Drain	

<i>Sink O</i>	Corian 810P and 815P		Best Practices for Hand Hygiene rating Appendix A	A III
FHA recommendation - Approved for patient area washrooms				
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>	
Kohler K-13462	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Kohler K-13463	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Kohler Transformer K-13480-A	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Moen 8553 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8553AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		

<i>Sink O</i>	<i>Corian 810P and 815P</i>		<i>Best Practices for Hand Hygiene rating Appendix A</i>	<i>A III</i>
FHA recommendation - Approved for patient area washrooms				
<i>Electronic Faucet</i>	<i>Mixing Valve</i>	<i>P-Traps and Tail Pieces (pick one)</i>	<i>Electrical component required</i>	
Moen 8554 (Battery)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Moen AC Transformer 104630	
Moen 8554AC (AC Power)	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Sloan Basys EFX-200.502.0000 (low height)	Bradley Mixing Valve S59-4000BY	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
	WATTS LFUSG-B-M2	OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		
Sloan Basys EFX-6X0-X1X-00X0 (mid height)	Bradley S59-4000A	Mountain MT3140 Copper 1 ¼" P-Trap	Sloan Optima Transformer 24 Volt	
	Leonard 170A-LF-BP	Mountain MT3130 Copper 1 ½" P-Trap		
		OS&B 110XBDCP 1 ¼" P-Trap		
		OS&B 114BDCP 1 ½" P-Trap		
		OS&B 3737 1 ¼" Lavatory Drain		
		OS&B 3737WC 1 ¼" Offset Lavatory Drain		