



STAINLESS SURGICAL SCRUB SINK

(Includes Operation, Installation, Maintenance and Parts)



OWNER'S MANUAL

MODELS

- SS2121-MK
- SS2122-MK
- SS2123-MK

DISTRIBUTED BY:

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1-1. Training Required Before Use

This equipment is intended for use by qualified healthcare professionals only. Prior to use the user must be aware of all warnings and cautions. This product is to be used strictly for the purpose for which it was designed.

Training for qualified healthcare professionals on the proper operation of this product should begin prior to use.

1-2. Use Statement

This product is to be used strictly for the purpose for which it was designed. If this product is used in a manner not specified by Skytron, the protection provided by the equipment may be impaired. Skytron disclaims all liability for the consequences of this product being used for purposes other than its intended design.

Product modification or misuse can be dangerous. MAC Medical disclaims all liability for the consequences of product alterations or modifications, as well as for the consequences which might result from the combination of this product with other products, whether supplied by Skytron or by or by other manufacturers, unless such a combination has been specifically endorsed by Skytron.

1-3. Service Statement



WARNING

REPAIRS AND ADJUSTMENTS should be attempted only by experienced service agents fully acquainted with this equipment. The use of inexperienced, unqualified persons to service the equipment, or the installation of unauthorized parts, could cause serious personal injury, or result in costly damage. Always unplug power cord from power source prior to attempting any repairs or servicing.

CAUTION

Possible equipment damage. When cleaning the sink see complete cleaning Instructions in this manual on page 19.

This product may only be serviced by an authorized service provider.

An authorized service provider meets manufacturer's operational standards for the repair of this equipment. They have been trained and tested on manufacturer servicing requirements for this product.

Failure to comply with manufacturer's service requirements will void the product warranty.

1-4. Service Contact Information

For servicing needs call Skytron at 1-800-759-8766, or Email Skytron at ServiceDispatch@Skytron.us.

1-5. Tools and Supplies Required

- Pen or pencil
- Tape measure
- Spirit (carpenter's) level
- Power drill w/appropriate size bits
- Wrenches and screwdrivers for bolts or screws
- Mounting hardware suitable for wall and or seismic application

1-6. Basic Installation Sequence

1. Prepare the wall as necessary to structurally support, plumb faucets, drains and valves
2. Determine the sinks mounting location
3. Mark all required mounting dimensions
4. Install all plumbing piping
5. Finish wall
6. Install sink
7. Connect all faucets, drains and valves

1-7. Parts Included

- Scrub Sink
- Faucet(s)
- Wall "Z" bracket(s)
- Divider(s) if applicable
- 2 support brackets
- Strainer(s)
- Waste terminal tail piece

If any damage or parts appear to be missing contact SKYTRON immediately.

1-8. Safety Precautions

The following is a summary of WARNINGS and CAUTIONS indicated throughout this manual. These precautions are found where applicable. Carefully read this section before operating the equipment.



WARNING

WARNING with safety alert symbol indicates a hazardous situation that, if not avoided, could result in death or serious injury.

REPAIRS AND ADJUSTMENTS should be attempted only by experienced service agents fully acquainted with this equipment. The use of inexperienced, unqualified persons to service the equipment, or the installation of unauthorized parts, could cause serious personal injury, or result in costly damage. Always unplug power cord from power source prior to attempting any repairs or servicing.

Handling may be awkward, we recommend that unpacking and installation is performed by at least 2 people.

For wall mounted units, the wall structure must be capable of supporting the load.

Z brackets and sink support brackets must be installed perfectly level and all state, local, and national codes must be adhered to ensure proper sink drainage.

Local building or plumbing codes may require modifications to the information provided. You are required to consult the local building and plumbing codes prior to installation. If the information provided here is not consistent with local building or plumbing codes, the local codes should be followed.

This product must be installed by a licensed contractor in accordance with local codes and ordinances.

FAILURE TO COMPLY WITH PROPER INSTALLATION AND MAINTENANCE INSTRUCTIONS COULD CONTRIBUTE TO VALVE FAILURE.

This hot water master tempering valve cannot be used for tempering water temperature at fixtures. Severe bodily injury (i.e., scalding or chilling) and/or death may result depending upon system water pressure changes and/or supply water temperature changes. ASSE standard 1016, 1069 or 1070 listed devices should be used at fixtures to prevent possible injury.

This hot water tempering valve is designed to be installed at or near the boiler or water heater. They are not designed to compensate for system pressure fluctuations and should not be used where ASSE standard 1016, 1069 or 1070 devices are required. These valves should never be used to provide “anti-scald” or “anti-chill” service.

The components of the system must be of materials with a construction capable of withstanding the high limit output temperatures of the water heating source.

Periodic inspection and yearly maintenance by a licensed contractor is required. Corrosive water conditions, temperatures over 200°F, unauthorized adjustments or repair could render the valve ineffective for service intended. Regular checking and cleaning of the valve’s internal components and check stops help ensure maximum life and proper product function. Frequency of cleaning and inspection depends upon local water conditions.

Burn Hazard. DO NOT CHANGE temperature settings on thermostatic mixing valve, unless you are a trained mechanic. **ANY REPAIR** or modification of mixing valve may affect the high temperature setting. The installer must check operating temperature before sink is back in operation.

The Eye Wash System should be tested weekly as part of normal Emergency equipment protocol.

Exercise personal care by following the cleaning agent manufacturers’ instructions and wearing protective equipment. Always consult the chemical supplier.

Repairs and Adjustments should be done by experienced service agents fully acquainted with this equipment. The use of inexperienced, unqualified persons to service the equipment, or the installation of unauthorized parts, could cause serious personal injury, or result in costly damage.

Only facility-authorized SKYTRON trained, maintenance personnel should troubleshoot the SKYTRON Stainless Surgical Scrub Sink. Trouble shooting by unauthorized personnel could result in personal injury or equipment damage.



CAUTION

CAUTION with safety alert symbol indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

See Switch Ratings before connecting power.

Flow settings for this switch is normally calibrated using water @ +70°F on increasing flow. Water calibrated units are not recommended for air/gas applications.

CAUTION

CAUTION without the safety alert symbol is used to address practices not related to personal injury but with a possibility of damage to equipment.

Possible equipment damage. When cleaning the sink see complete cleaning Instructions in this manual on page 20.

When cleaning the sink DO NOT use abrasive pads, scrapers, steel wool, or a wire brush.

When cleaning the sink DO NOT use water with a pH higher than 7.0, hydrochloric acid, steam or high pressure water, bleach or any compounds containing chlorine or sodium hypochlorite, or ammonium chloride salts.

Periodic inspection and maintenance by a licensed contractor is required.

NOTICE

Indicates important information not related to personal injury.

2-1. Available Sink Models



2-2. Sink Weight

- Single basin - 145 lbs
- Double basin - 230 lbs
- Triple basin - 320 lbs

2-3. Sink Certifications

- UL and cUL certified
- California OSHPD pre-approved when mounted on a structurally sound wall.

Material:

Sink Basin and Sink Top	14 gauge, 300 series stainless steel
Sink Skirt	18 gauge, 300 series stainless steel
Plumbing	1/2" copper or brass pipe
	Sink is furnished with in-line check valves on supply lines.

2-4. Owner's Service Responsibility

- Ensure that maximum specified pressures are not exceeded using pressure regulators or other means.
- Ensure that water supplies are properly protected for internal cross connection control in accordance with local building and plumbing requirements.
- Eliminate water hammer conditions if they occur in the service piping.
- Flush water lines clean before water connections are made.

2-5. Utility Requirements

Cold Water	Pressure: 20 to 50 PSI
	Temperature: Maximum 70° F [21.1° C]
Hot Water	Pressure: 20 to 50 PSI
	Temperature: Maximum 120° to 140° F [48.9° to 60° C]

2-6. Power Requirements for Sinks with Optional Infrared Sensor

- 120 Volt, 60 Hz, single phase, 3.0 amp GFI protected electrical outlet (by others)
- 220 VAC, 60 Hz, single phase 1.5 amp
- Installed per local building codes.

2-7. Mixing Valve Specifications

- Connections - 1/2" NPT Inlets and 1/2" NPT Top Outlet
- Capacity (without checkstops) - 5.25 gpm (19.9 L/min - at 45 psi differential [310kPa] with hot water supply between 140° - 180° F [60° - 82° C] and 50/50 mix) - (±0.25 gpm [0.95 L/min])
- Maximum Hot Water supply Temperature - 190° F [88° C]
- Minimum Hot water supply temperature (not applicable to low temperature hot water valves - 5° F [2.8° C] above set point
- Temperature Ranges - ASSE 1016 Type T: 65-115°F [18-46°C]; ASSE 1016 Type T/P: 90-110°F [32-43°C]
- Maximum Operating Pressure - 125 psig [862 kPa]
- Maximum Static Pressure - 125 psig [862 kPa]
- Compliant - ASSE 1016-T-P
- Certified - CSA B125

It is recommended that a structural engineer provide necessary criteria for adequate wall support and reinforcement. Ensure attachment wall is plumb prior to installation. Adhere to all state, local, and national codes.

**WARNING**

Handling may be awkward, we recommend that unpacking and installation is performed by at least 2 people.

1. Carefully uncrate the scrub sink. The sink hardware is under the sink secured to the shipping materials. If there is any damage, refer to page 26 for damaged claim procedure.
2. Check water supply and waste terminal locations:
 - Remove hardware before discarding packaging.
 - Install sink near a hot water source.
 - For proper sink operation the hot water temperature must be 120°F.
3. For Infrared sensor activated sinks, ensure the sink is located near a 110/120V outlet power source. Refer to local and state codes for proper positioning and installation.

3-1. Install the Sink Support Brackets**NOTICE**

Wall mounting hardware is provided by others.

**WARNING**

For wall mounted units, the wall structure must be capable of supporting the load.

**WARNING**

Z brackets and sink support brackets must be installed perfectly level and all state, local, and national codes must be adhered to ensure proper sink drainage.

Attach the sink support brackets to the wall according to model. Recommended mounting specifications are shown as follows:

- (SS2121) single basin, Figure 7 on page 13
- (SS2122) double basin, Figure 8 on page 14
- (SS2123) triple basin, Figure 9 on page 15

Mounting hardware, will vary depending on wall construction (holes provided are for 1/4" diameter fasteners). Observe dimensions carefully.

For installations utilizing the optional sink carriers refer to:

- "Optional Single Sink Carrier" on page 16,
- "Optional Double Sink Carrier" on page 17
- "Optional Triple Sink Carrier" on page 18

For seismic applications please contact your Skytron representative for seismic documentation.

3-2. Install the Soap Dispenser Spout

The soap dispenser and tubing is stored inside the sink basin for shipping. The dispenser spout should be installed before hanging the sink.

1. Remove the bushing from the spout (Figure 1).

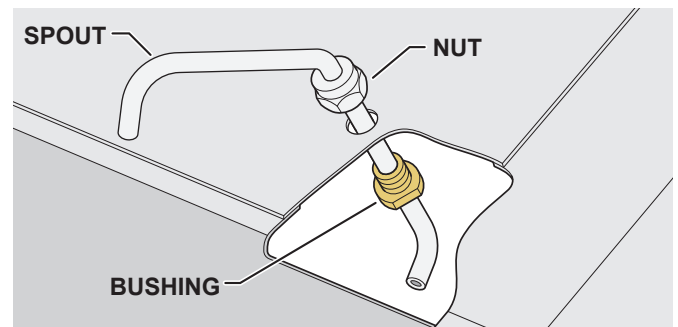


Figure 1. Soap Spout Assembly

2. Feed the spout through the small hole at the top of the sink. The nut should rest on top of the sink.
3. Screw the bushing onto the spout from inside the cabinet, holding the spout in place.
4. Attach the soap tubing to the spout and soap pump.
5. Press the spout down repeatedly to start the flow of the soap.

3-3. Attach Sink to Support Brackets

1. Install sink assembly on brackets making sure the sink assembly is captured by the wall “Z” bracket(s) (Figure 2).

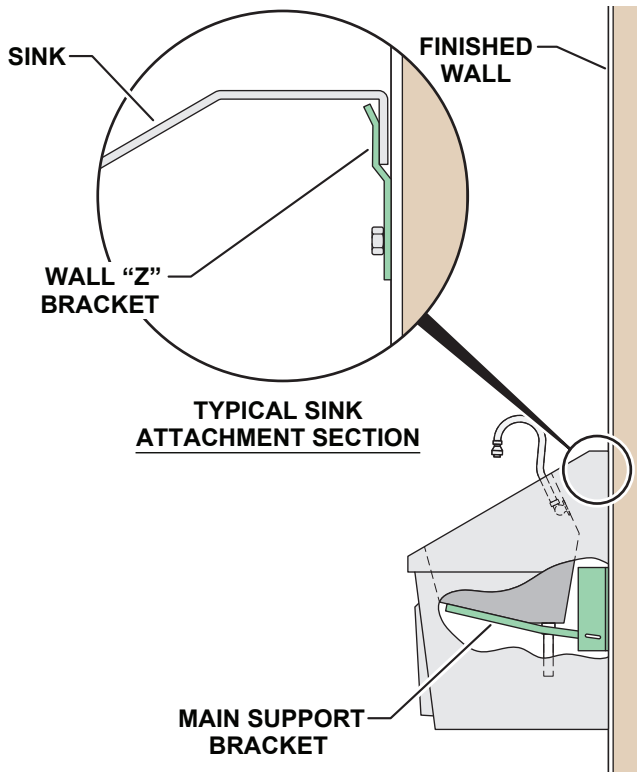


Figure 2. Sink Attachment.

3-4. Infrared Controls Installation

Infrared Self-Activated Sinks are supplied with a 24V power transformer(s) that connects to a standard duplex outlet (110/120V outlet required).

Single basin sinks have one sensor, dual basin sinks have two sensors (one for each basin) and triple basin sinks have three sensors (one for each basin).

1. Plug the transformer(s) into the outlet.
2. A red LED will flash in the sensor window (Figure 3). DO NOT interrupt the sensor beam until the light turns off.



Figure 3. Infrared Sensor

3-4-1. Sensor Initialization

The sensors are pre-set and equipped with a logic board. The sensors determines the range during initialization period (The time after initial power until the light turns off is approximately 5 minutes). The range is approximately 12-14” in front of the sensor and is 25 degrees at peak.

During the initialization period, the sensors allow for fixed objects that may be within the sensors’ range. The sensors are equipped with a two second on/off delay, and no-time-out feature. This prevents the sink from turning on when walking past at a normal pace and no-time out allows for an uninterrupted scrub.

3-5. In-line Flow Switch Timer Controller

The in-line flow switch timer controller is available only on Infrared Activated Scrub Sinks (Figure 4).

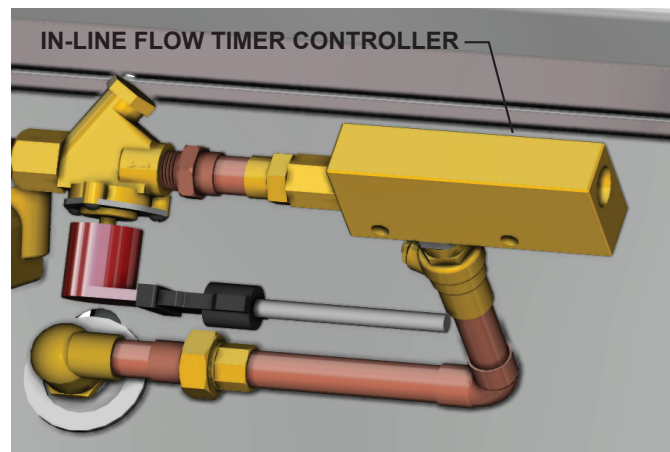


Figure 4. In-line Flow Switch Timer Controller

This is an explosion-proof brass flow switch, actuation set point 0.50 GPM (1.89 LPM), and calibrated for water at standard conditions. It is used for accurate detection of excessive or insufficient flow rates.

3-5-1. Flow Timer Controller Specifications

Service	Compatible Liquids
Wetted Materials	Housing: Brass Piston: polysulfone Spring: 316SS O-Ring: Fluoroelastomer Other: Epoxy
Temp. Limits	-20 to 225°F (-29 to 107°C)
Pressure Limits	1000 psig (68.9 bar)
Accuracy	±10% of set point
Repeatability	±1%
Electrical Rating	.17 A @ 120 VAC .08 A @ 240 VAC .13 A @ 120 VDC .06 A @ 240 VDC
Electrical Connection	18 AWG, 24" (60.96 cm), Polymeric lead wires
Process Connection	1/4" female NPT
Mounting Orientation	Any position. Set points shown are based on vertical, inlet down position.
Request Filtration	50 microns or better
Weight	0.66 lb [301 g]
Agency Approval	CE
Switch Type (See Switch Ratings)	SPDT, 20 VA

3-5-2. Switch Ratings

Switch Ratings Max Restive Load

VA	Volts	Amps AC	Amps DC
20	0-30	0.4	0.3
	120	0.17	0.13
	240	0.08	0.06

3-5-3. Install the In-line Flow Timer Controller

Unit calibrated in a vertical position, with lead wires up.

1. Install unit in piping system, using standard pipe fitting procedures. Be sure to keep thread sealing compound out of unit.
2. Make sure that flow is in proper direction - marked "IN" and "OUT" on housing.
3. Make wiring connections according to switch wiring diagram (Figure 5).

TYPICAL WIRING DIAGRAM

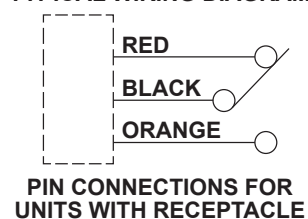


Figure 5. Typical Switch Wiring Diagram



CAUTION

See Switch Ratings before connecting power.

Flow settings for this switch is normally calibrated using water @ +70°F on increasing flow. Water calibrated units are not recommended for air/gas applications.

3-5-4. Switch Timer Controller Maintenance

Accumulation of foreign debris should periodically be removed from these switches. Occasional "wipe-down" cleaning when excessive contamination is present is all that is normally required.

1. Remove unit from the system and disassemble as shown (Figure 6).
2. Clean all parts. A 50 micron filter is recommended.
3. Reassemble and reinstall unit.

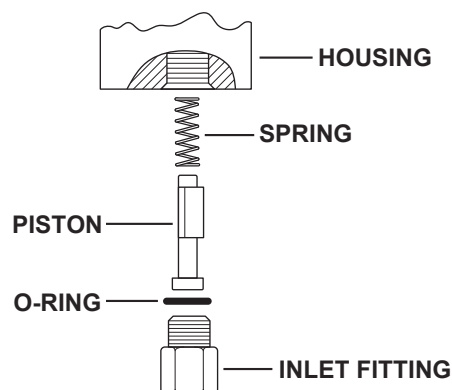


Figure 6. Switch Timer Controller

3-6. Plumbing Installation

1. Install Drain Tail Piece, Faucet and Divider if applicable.
2. Install Optional Eye Wash Blending Valve if applicable using instructions provided with the valve.
3. Make all plumbing connections in accordance with state and local codes.
4. Connect 120V, 15A power source to Infrared Sensor Transformer if applicable.
5. Install Emergency Eye Wash sign if applicable

3-6-1. Connect Drain and Water Lines



WARNING

Local building or plumbing codes may require modifications to the information provided. You are required to consult the local building and plumbing codes prior to installation. If the information provided here is not consistent with local building or plumbing codes, the local codes should be followed.

This product must be installed by a licensed contractor in accordance with local codes and ordinances.

FAILURE TO COMPLY WITH PROPER INSTALLATION AND MAINTENANCE INSTRUCTIONS COULD CONTRIBUTE TO VALVE FAILURE.

This hot water master tempering valve cannot be used for tempering water temperature at fixtures. Severe bodily injury (i.e., scalding or chilling) and/or death may result depending upon system water pressure changes and/or supply water temperature changes. ASSE standard 1016, 1069 or 1070 listed devices should be used at fixtures to prevent possible injury.

This hot water tempering valve is designed to be installed at or near the boiler or water heater. They are not designed to compensate for system pressure fluctuations and should not be used where ASSE standard 1016, 1069 or 1070 devices are required. These valves should never be used to provide “anti-scald” or “anti-chill” service.

The components of the system must be of materials with a construction capable of withstanding the high limit output temperatures of the water heating source.

Periodic inspection and yearly maintenance by a licensed contractor is required. Corrosive water conditions, temperatures over 200°F, unauthorized adjustments or repair could render the valve ineffective for service intended. Regular checking and cleaning of the valve’s internal components and check stops help ensure maximum life and proper product function. Frequency of cleaning and inspection depends upon local water conditions.

Plumbing Installation should be in accordance with accepted plumbing practices. Installation and field adjustment are the responsibility of the installer.

1. Flush all pipes thoroughly before installation.
2. Connect sink drain pipe to drain.
3. Close both hot and cold water shutoff valves upstream of the tempering valve.
4. Bleed pressure from the system.
5. Route copper tubing or piping to fit valve dimensions.
6. Remove tailpieces from the valve and make sure union nuts are over the tubing/piping before connecting to the tailpiece.

NOTICE

If soldering, remove unions and gaskets from valve body prior to soldering to prevent damage to valve from excessive heat.

7. Flush piping again, install valve using filter gasket on hot and cold water inlets and fiber gasket on mixed water outlet.
8. Turn on the cold and hot water. If any leaks are observed, tighten connections as necessary to stop leaks before proceeding.
9. After the plumbing installation is complete, the water pressure can be adjust to avoid excess splash. The pressure can be controlled by adjusting the flow with the flow control valve located under face plate.

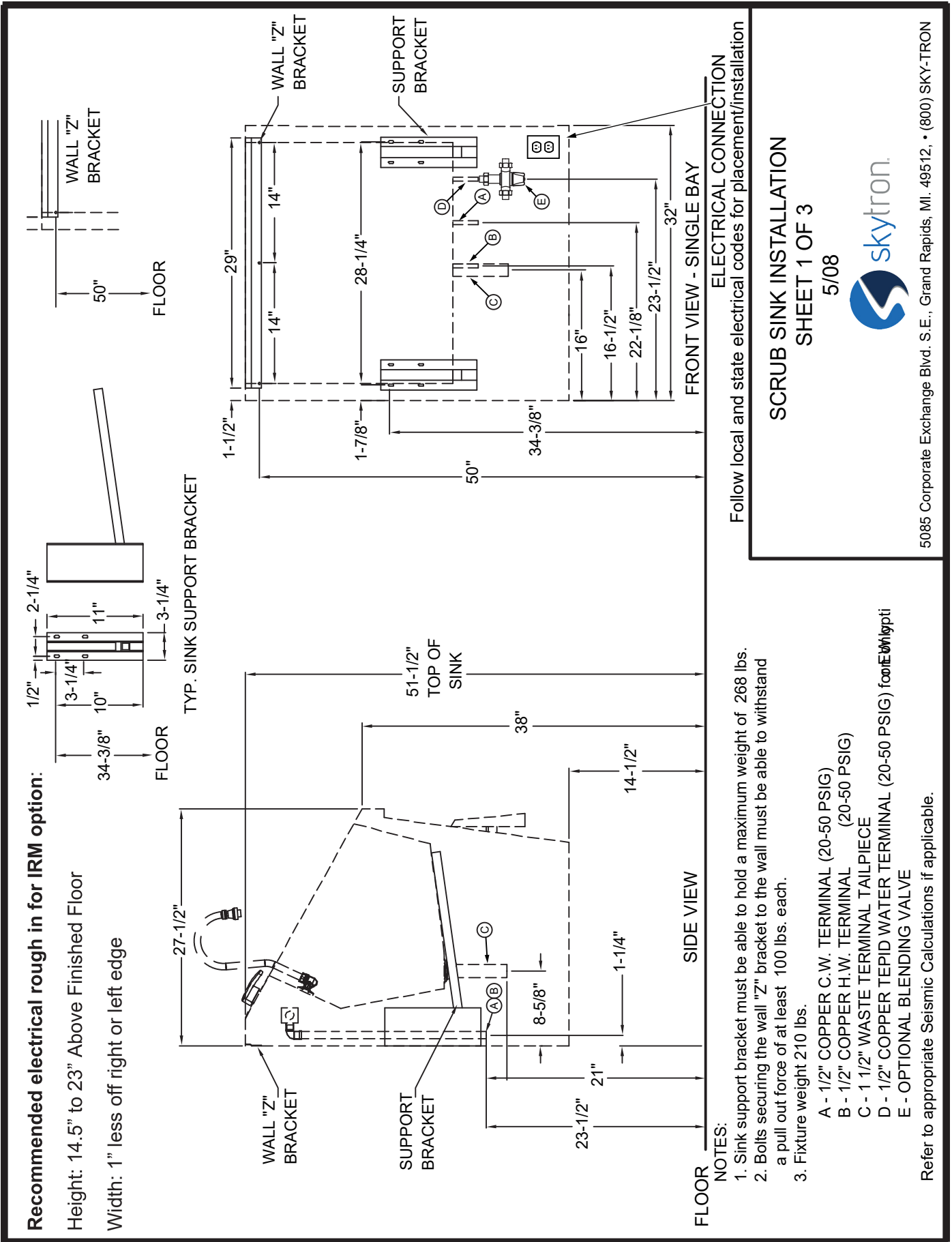


Figure 7. SS2121 Single Basin

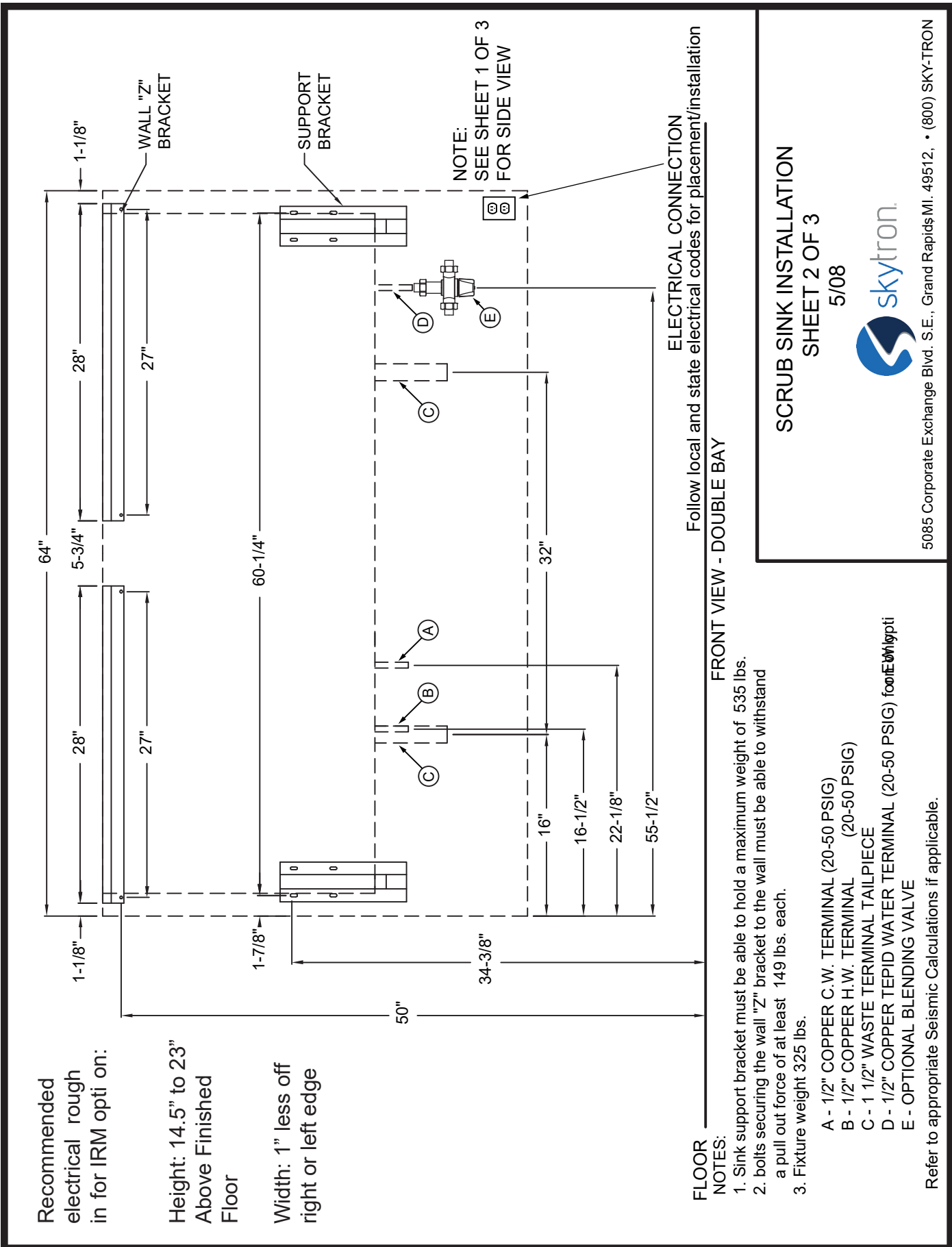


Figure 8. SS2122 Double Basin

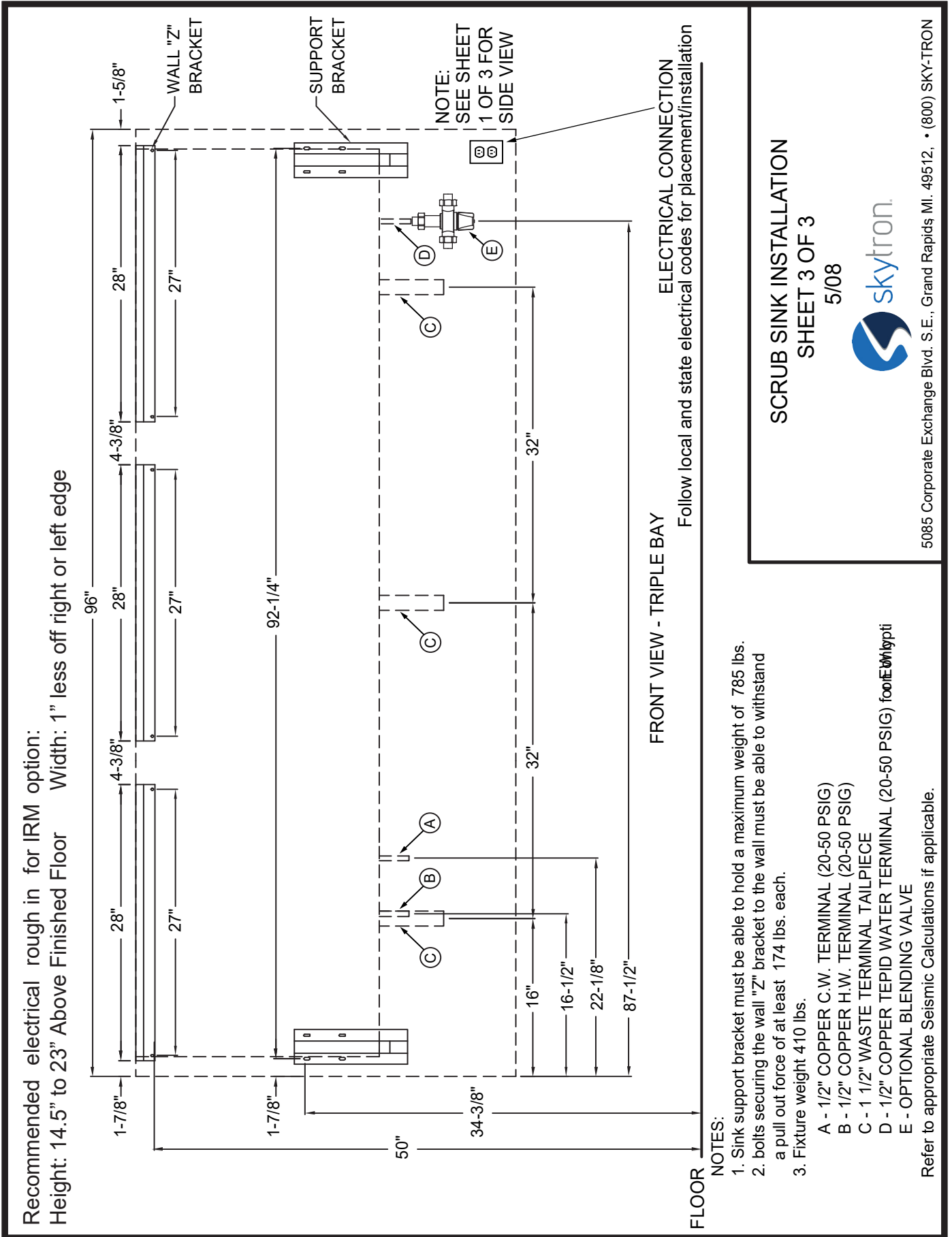


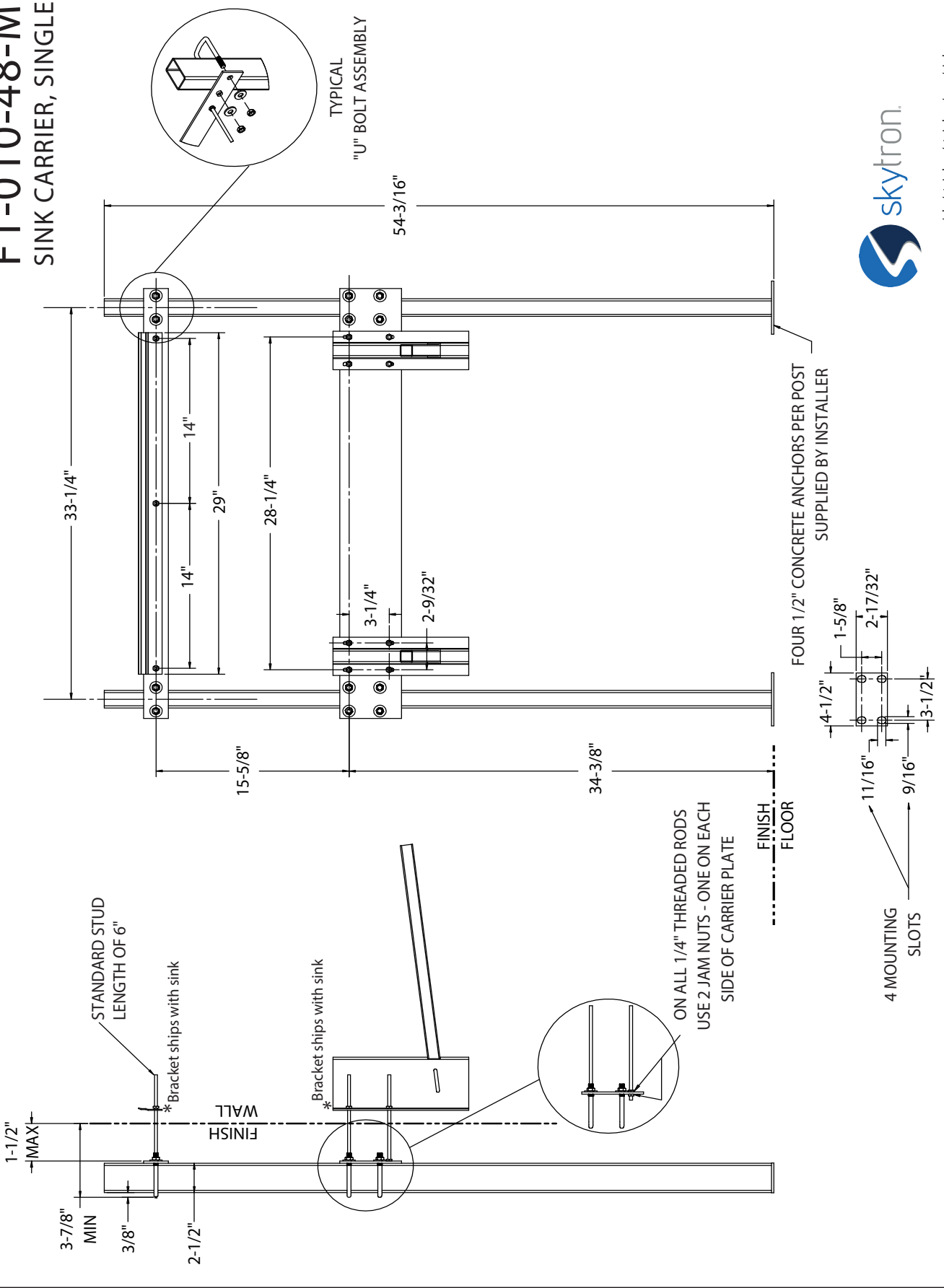
Figure 9. SS2123 Triple Basin

SCRUB SINK INSTALLATION
 SHEET 3 OF 3
 5/08



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F1-010-48-M
SINK CARRIER, SINGLE

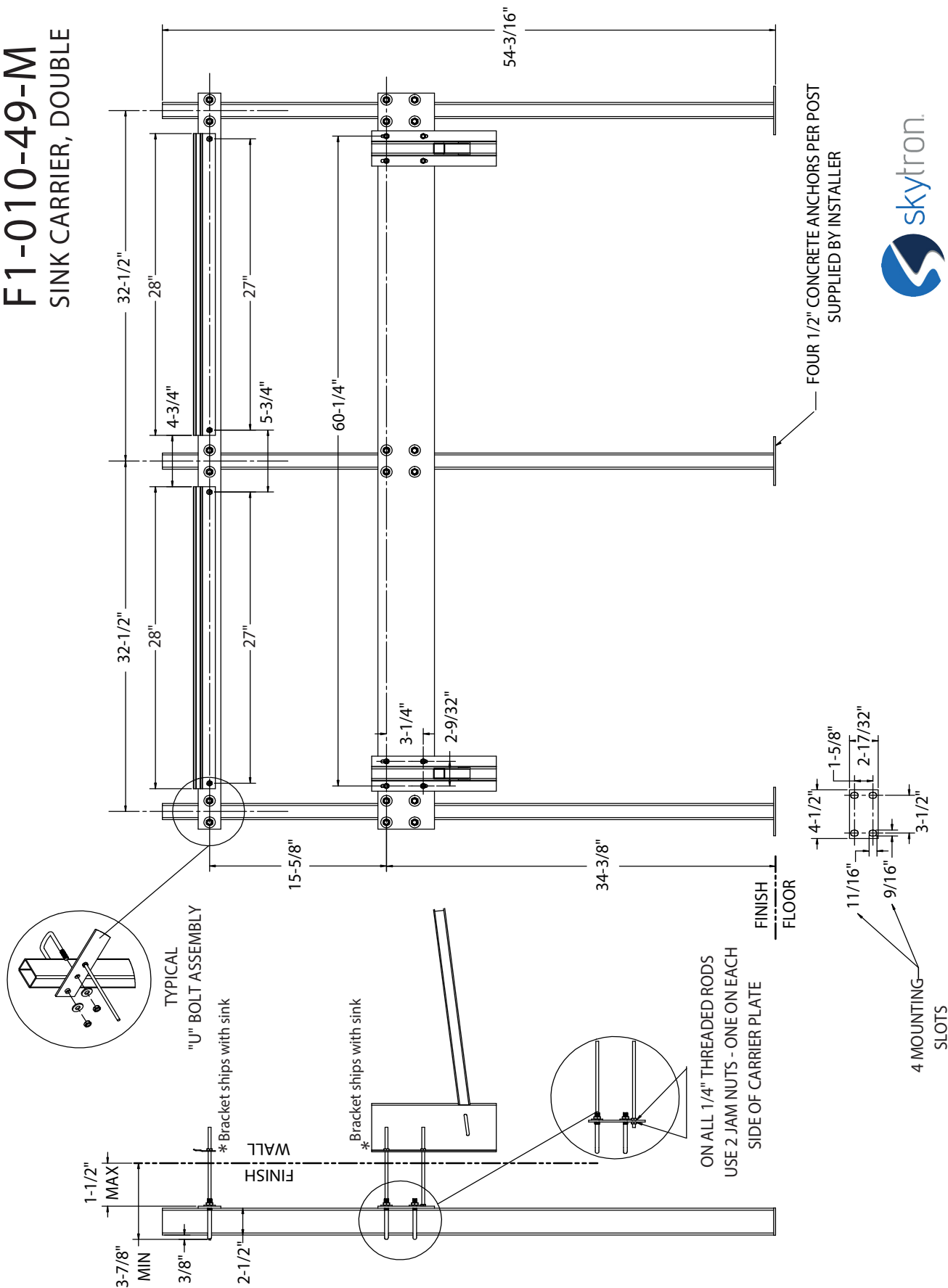


comm/sky/stainless/stainless/mac/sink owners

Figure 10. Optional Single Sink Carrier

F1-010-49-M

SINK CARRIER, DOUBLE

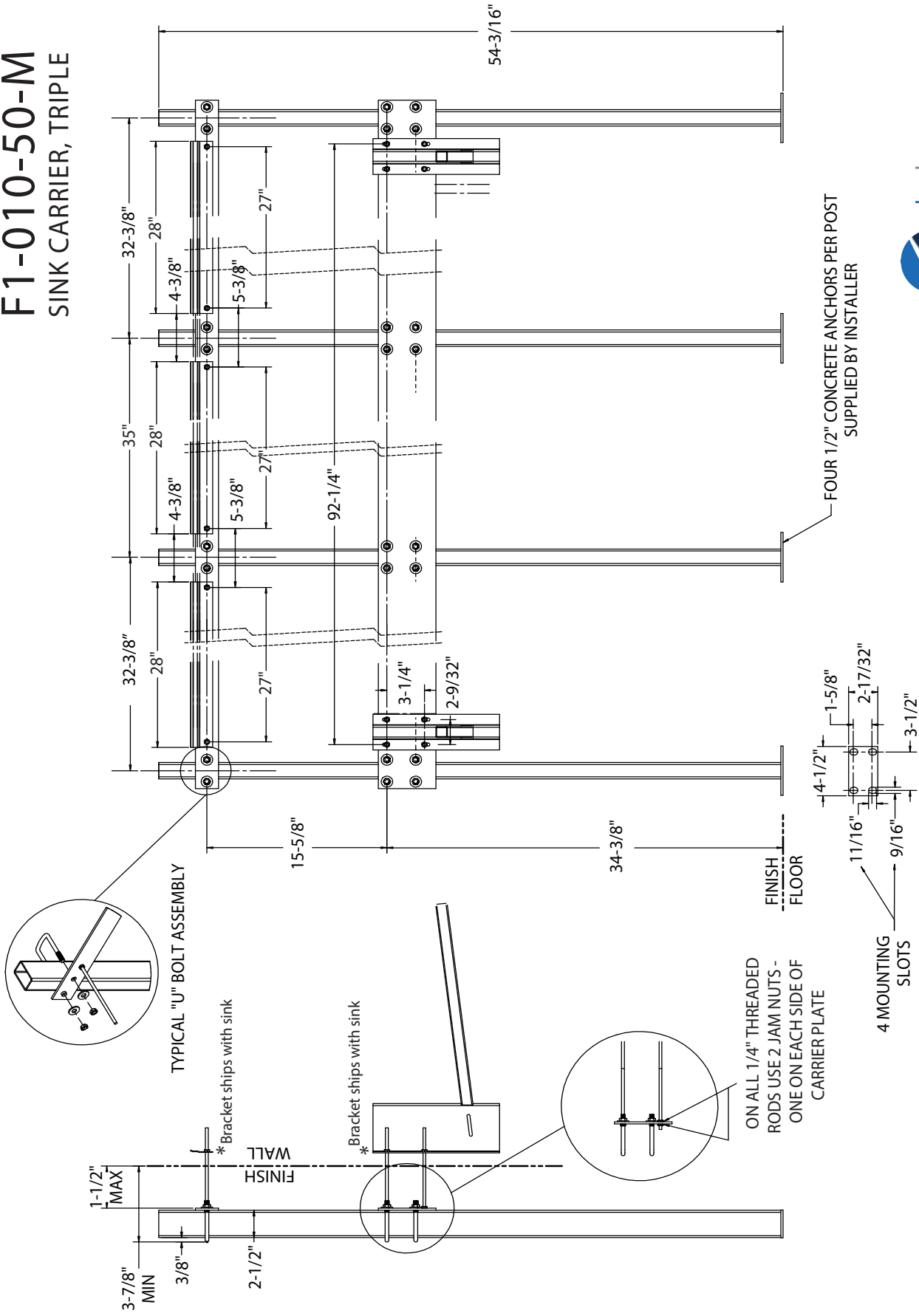


comm/sky/stainless/stainless/mac/sinkowners

Figure 11. Optional Double Sink Carrier

F1-010-50-M

SINK CARRIER, TRIPLE



comm/sky/stainless/mac/sink/owners

Figure 12. Optional Triple Sink Carrier

4-1. Operation

- Press knee kick panel to activate water flow.
- Adjust water temperature with the mixing valve.
- Press knee-kick panel again to stop water flow.



WARNING

Burn Hazard. DO NOT CHANGE temperature settings on thermostatic mixing valve, unless you are a trained mechanic. ANY REPAIR or modification of mixing valve may affect the high temperature setting. The installer must check operating temperature before sink is back in operation.

4-1-1. Optional Infrared Sensor

Place hands under faucet to activate infrared system and begin water flow. Water flow will stop 3 seconds after hands are removed from area. Knee kick system will override the infrared sensor.

4-1-2. Optional Eye Wash

To activate the Eye Wash System, lower the spray head to a usable position, water flow is automatic.

Return the spray head to upright position to stop water flow.



WARNING

The Eye Wash System should be tested weekly as part of normal Emergency equipment protocol.

4-2. Care and Cleaning of Stainless Steel

Stainless steel sinks must be cleaned on a regular basis to prevent unnecessary damage to the stainless steel surface. When cleaning stainless steel sinks, make sure to use the proper cleaning agents and cleaning materials.

Always follow current AORN/EORNA Journal Guidelines to ensure proper cleaning and disinfection procedure.

Always follow product cleaning and disinfecting utilization instructions and warnings for use on stainless steel surfaces indicated by cleaning product manufacturer.

CAUTION

When cleaning the sink DO NOT use abrasive pads, scrapers, steel wool, or a wire brush.

CAUTION

When cleaning the sink DO NOT use water with a pH higher than 7.0, hydrochloric acid, steam or high pressure water, bleach or any compounds containing chlorine or sodium hypochlorite, or ammonium chloride salts.

4-2-1. Approved Cleaning Materials and Cleaning Agents

- Soft, clean lint brush
- Non-abrasive cleaning pads
- Soft bristle brush
- Mild detergents
- Sodium bicarbonate (baking soda)
- Distilled water (pH rating 7) alone or with a mild detergent.
- White vinegar (in a spray bottle)
- Isopropyl Alcohol
- Hospital-grade non-bleach disinfectants
- Cleaners approved for use on stainless steel



WARNING

Exercise personal care by following the cleaning agent manufacturers' instructions and wearing protective equipment. Always consult the chemical supplier.

4-2-2. Cleaning Stainless Steel Surfaces

1. Using a damp, lint-free cloth and approved cleaner, wipe down the entire exterior surface of the stainless steel sink. Always rub in the direction of the "grain" of the metal. Make sure to test in an inconspicuous area first to be sure not to damage the product's finish.
2. Using a damp lint-free cloth with distilled water and a mild detergent, wipe down the entire exterior surface of the stainless steel sinks.
3. Let the sink air dry.

4-2-3. Cleaning Decals or Printed Labels

- Use only distilled water and a mild detergent applied with a clean, dry lint-free cloth to clean decals or printed labels.
- Cleaning agents can remove or smear any printing from decals and print labels.
- Cleaning agents can damage plastic materials used in manufacturing covers for electronic items such as touch screen pads.

5-1. Information for Service Personnel

Service in accordance with this service manual	Service this product according to the instructions provided in this manual.
Use original Skytron parts only	The safety, reliability, and performance of the equipment can only be ensured if Skytron original replacement parts and accessories are used.
Modifications and unauthorized repairs	<p>Unauthorized repairs, temporary repairs, or modifications are not permissible and will void the product's warranty. Always comply with the requirements for current regulations and standards.</p> <p>For additional information and to order spare parts and accessories please contact Skytron Service.</p> <p>Telephone: (800) 759-8766 E-mail: ServiceDispatch@Skytron.us</p>
Technical support is available	For questions related to repairs, settings, and disassembly, or to order parts and accessories please contact us at: Telephone: 800-759-8766
Sales	Telephone: 800-759-8766
Service	Telephone: 800-759-8766 E-mail: ServiceDispatch@Skytron.us
Visit us on the internet	www.Skytron.us

5-2-1. Preventive Maintenance

CAUTION

Periodic inspection and maintenance by a licensed contractor is required.

Corrosive water conditions, temperatures over 200°F, unauthorized adjustments or repair could render the valve ineffective for service. Regular checking and cleaning of the valve's internal components and check stops helps assure maximum life and proper product function. Frequency of cleaning and inspection depends upon local water conditions.

Every 6 months -

1. Check and adjust the temperature setting.

Every 12 months -

2. Shut off water supply
3. Open up checkstops.
4. Clean strainers and check for free movement of checkstop poppet.
5. Replace seals if cracked, cut, or worn.
6. Re-Assemble.
7. Adjust stem to desired temperature.

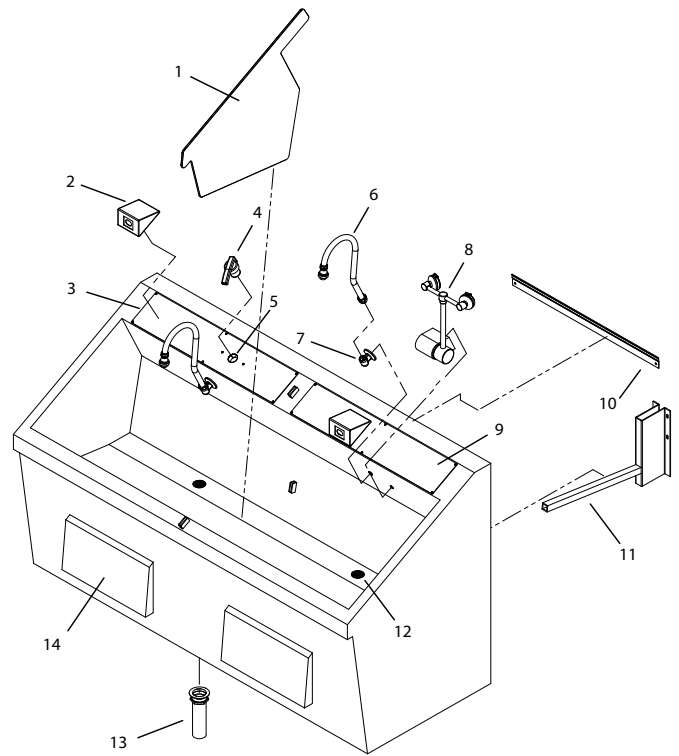
5-2-2. Service

 **WARNING**

Repairs and Adjustments should be done by experienced service agents fully acquainted with this equipment. The use of inexperienced, unqualified persons to service the equipment, or the installation of unauthorized parts, could cause serious personal injury, or result in costly damage.

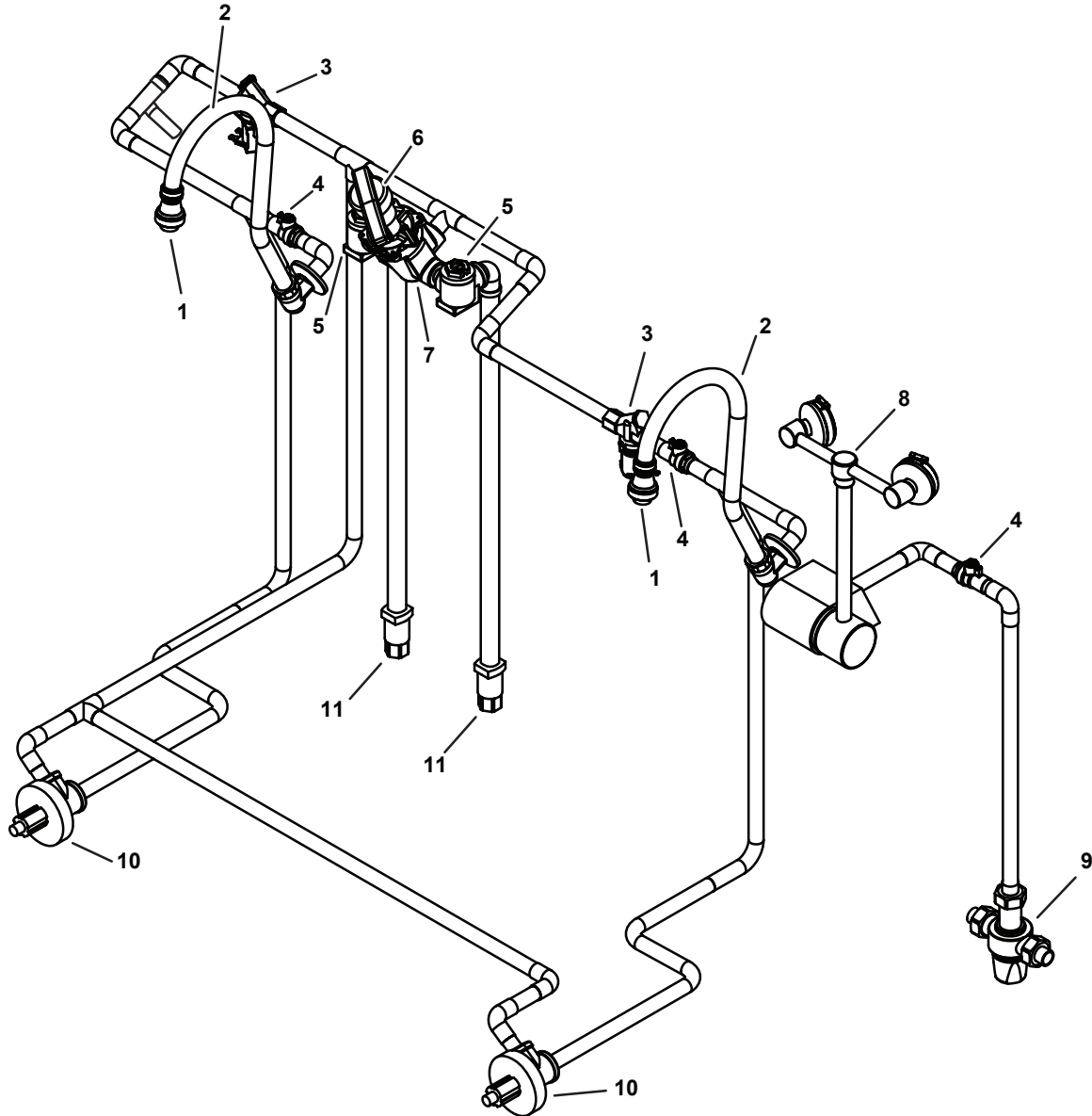
6-1. Sink Components

Item 9 Face Plate Options	
Part No.	Description
F1-020-02	Standard Header with Mixing Valve
F1-020-07	Header Blank No Mixing Valve
F1-020-17	Header "IR" Sensor and Mixing Valve
F1-020-18	Header "IR" Sensor
F1-020-73	Header Blank with Timer
F1-020-74	Header with Mixing Valve, Timer and I.R. Sensor
F1-020-75	Header Blank with Timer and I.R. Sensor



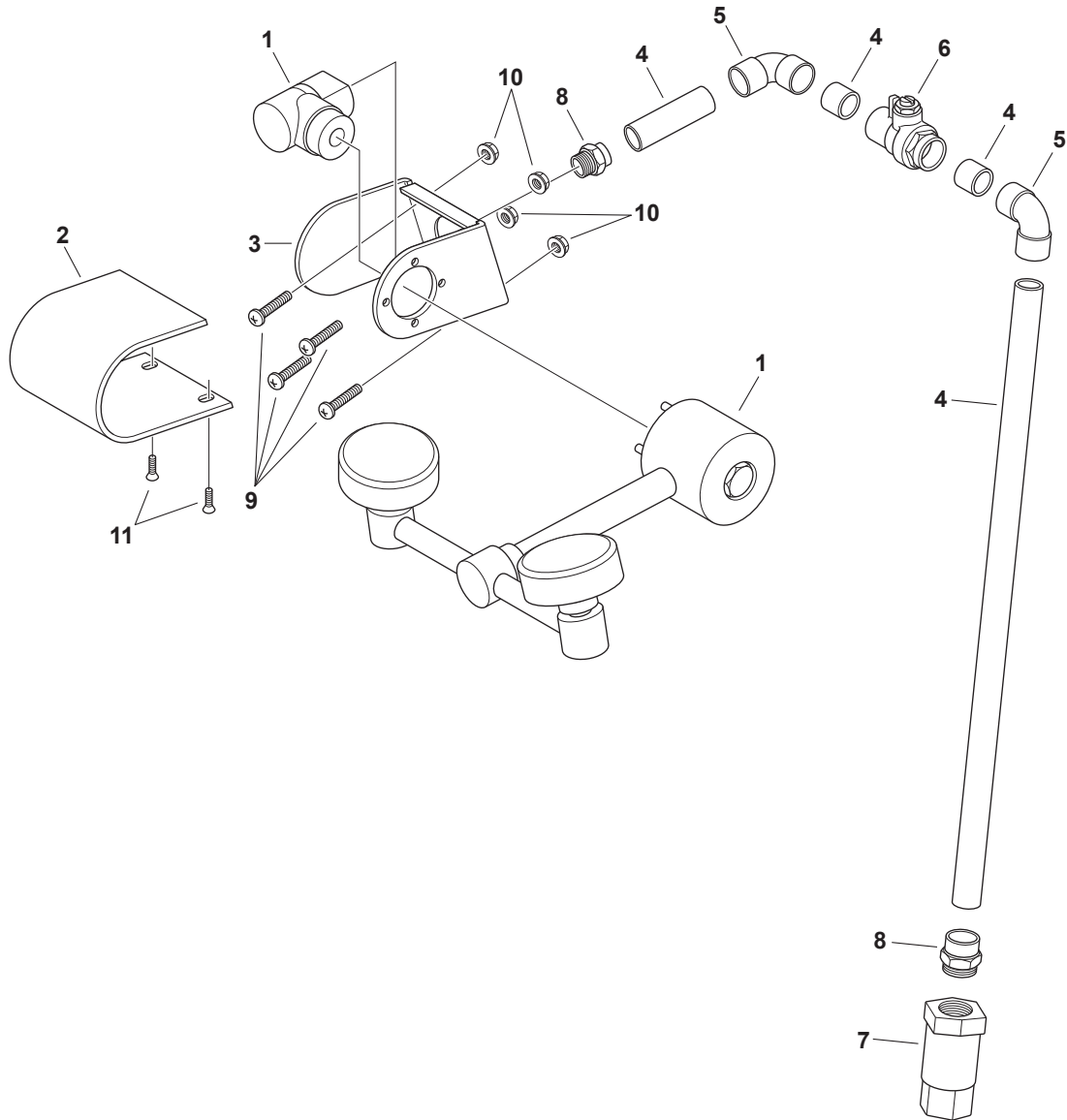
Item	Part No.	Description	Qty.
1	F1-020-01	DIVIDER, plexiglass	A/R
-	SS-Divider	DIVIDER, stainless steel	opt.
2	F1-020-14	INFRARED SENSOR.....	opt.
NS	F1-020-15	SOLENOID.....	opt.
NS	F1-020-16	90VA TRANSFORMER	opt.
NS	S0045	FACEPLATE GASKET	A/R
3	F1-020-02-1	FACEPLATE NUT	A/R
	F1-020-02-2	FACEPLATE SCREW	A/R
4	F1-020-03	LEVER, valve	1
5	F1-020-04	VALVE, mixing.....	1
6	F1-020-19	GOOSE NECK	A/R
-	F1-020-06	AERATOR, spray	A/R
7	F1-020-30	MOUNT, gooseneck	A/R
8	-EW	EYE WASH	opt.
9	SEE CHART	FACEPLATE.....	A/R
10	F1-020-08	WALL "Z" BRACKET, 28" (double or triple)	A/R
	F1-020-09	WALL "Z" BRACKET, 29" (single).....	A/R
11	F1-020-10	BRACKET, basin	2
12	F1-020-29	STRAINER, flat drain	A/R
13	F1-020-11	TAIL PIECE, drain	A/R
14	F1-020-12	PANEL, knee kick.....	A/R
NS	F1-020-59	DELTRIN SPACER BLOCK, S.N. 101608 &P.....	A/R
15	S0046	BRACKET, splash screen divider.....	A/R
NS	S0202	TIMER KIT.....	A/R
NS	FSP	FOOT OPERATED SOAP	A/R
NS	SKYKSP	KNEE OPERATED SOAP.....	A/R

6-2. Plumbing Components



Item	Part No.	Description	Qty.
1	F1-020-06	AERATOR, spray	A/R
2	F1-020-19	GOOSE NECK	A/R
3	F1-020-15	SOLENOID VALVE.....	A/R
4	F1-020-33	VALVE, balance flow	A/R
5	F1-020-32	CHECK STOP STRAINER.....	A/R
6	F1-020-03	LEVER, valve	A/R
7	F1-020-04	VALVE, mixing.....	A/R
8	-EW	EYE WASH	opt.
-	S0201	EYE WASH RETROFIT KIT	opt.
9	F1-020-31	VALVE, blending.....	opt.
-	S0104-CU	THERMOSTATIC MIXING VALVE.....	opt.
10	F1-020-13	VALVE, knee kick	A/R
-	F1-020-13-R	REBUILD KIT, knee kick valve	A/R
11	F1-020-28	CHECK VALVE, supply line.....	A/R

6-3. Eye Wash Components



Item	Part No.	Description	Qty.
1	S0125-GUAR	FAUCET, Guardian eye wash	1
2	SMS0059	COVER, eye wash	1
3	SMS0058	HOUSING, eye wash	1
4	S0069	1/2" COPPER PIPE.....	3 ft.
5	S0049	ELBOW, 1/2" copper 90	2
6	S0024	1/2" BALANCE FLOW CONTROL VALVE	2
7	S0131	CHECK VALVE, 1/2" spring loaded.....	1
8	S0059	ADAPTOR, male 1/2" X 1/2"	2
9	H0015-06	SCREW, pan head 10-32 X 1.0" long stainless steel.....	4
10	H0004-04	LOCK NUT, nylon 0-32.....	4
11	H0006-05	SCREW, #6-32 X 1/2 flat undercut head, stainless steel	2

**WARNING**

Only facility-authorized SKYTRON trained, maintenance personnel should troubleshoot the SKYTRON Stainless Surgical Scrub Sink. Trouble shooting by unauthorized personnel could result in personal injury or equipment damage.

Low water pressure:	Confirm that the facility water pressure meets the 20 - 50 PSIG requirements.	If not, the facility will need to supply sufficient water pressure to the sink.
	Make sure the supply valves are fully open.	If not, fully open the valve.
	Checkstops not fully open.	If not, fully open the checkstops.
	Clogged strainer screens in the checkstops.	Clean or replace checkstop screens.
	Clogged cartridge.	Clean or replace cartridge.
	Accumulation of lime deposits in hot water pipes.	The facility will need to replace pipes.
	Inspect mixing valve filters for contaminants.	Clean valve strainer or filters and reassemble them.
	Inspect the knee kick valve for debris, damage, or excessive wear.	If present, replace the valve using the rebuild kit. (Part No. F1-020-13-R)
Water flow completely cut off:	Valves upstream from supply completely closed.	Open valves upstream.
	Failure of cold water supply pressure.	Mixing valve is designed to shut off on a cold water supply failure.
	Checkstops completely closed.	Open the checkstops.
Water will not shut off or turn on from the knee kick:	Inspect the knee kick valve for debris or wear.	Replace the valve using the rebuild kit. (Part No. F1-020-13-R)
	If the unit was just installed and water will not turn on, open the alternate valve (Figure 13).	Open the alternate valve (Figure 13).
Water temperature is too hot or too cold:	Verify that adequate hot water is being supplied to the sink.	If not, the facility will need to increase the supply of hot water to the sink.
	Water temperature lever has been changed to a setting too hot or too cold.	Adjust the lever until the desired temperature is achieved.
	Inspect the mixing valve for wear or debris.	If present, clean or replace the mixing valve. (Part No. F1-020-04)
	The mixing valve is not properly adjusted.	Adjust the mixing valve until the desired temperature mix is achieved.
	Accumulation of lime deposits in hot water pipes, restricting the flow of hot water.	The facility will need to replace pipes.
	Thermostatic actuator failure.	Replace with new thermostatic actuator.
	Hot and cold water supplies are connected to the wrong ports.	Reverse hot and cold water supplies to the correct ports.
Maximum specified temperature for the mixing valve cannot be obtained:	Accumulation of lime deposits in hot water pipes, restricting the flow of hot water.	The facility will need to replace pipes.
	Hot water supply temperature is too low.	The facility will need to increase hot water supply temperature.
Variable discharge temperature occurs:	Extreme pressure variations in supply lines.	Make sure the supply valves are fully open.
	Valve operating below minimum capacity requirements.	Check valves and checkstops open and working properly.

Eye wash troubleshooting:	Water temperature is too hot or too cold.	Inspect blending valve and adjust if necessary.
	Will not turn on or off.	Verify that sensor eye has a red light visible and flashes when it detects a target.
	Check that 120 volts are being supplied to the transformer.	If not, the facility will need to correct power at the wall.
	Check that there is a 24VAC output from the transformer to the solenoid.	If there is no current or the voltage is weak, replace the transformer. If there is sufficient voltage but the solenoid still does not work, replace the solenoid.

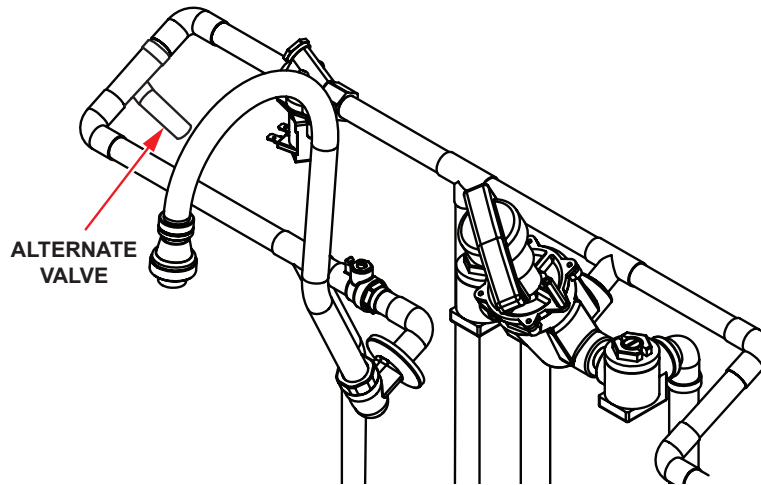


Figure 13. Alternate Valve

Whenever a shipment suffers damage while in the custody of the transportation company, the responsibility lies with the transportation company, and the value of the damages can be collected from the transportation company if the proper procedures are followed.

When a shipment is received in a damaged condition and due to the appearance of the containers such as a broken crate, torn wrapping, or smashed carton, the contents may have been damaged. That fact should be noted on the Bill of Lading offered by the transportation company. An example of an applicable statement would be; "Received in good order except as noted" or "Crate damaged, possibility of concealed damage." The addition of these types of statements on the shipping documents will automatically give grounds for starting a claim.

If damage cannot be identified on the exterior of the container, but is found when the container is opened, further unpacking should be stopped immediately and the container with all wrapping or packing materials should be held. The transportation company should be notified so an inspector can be sent. Failure to follow either of these two procedures may result in an inability to file a claim and collect for damage done. Returning the container to the sender without such an inspection may prevent filing a claim, because it will divide the responsibility for damage and in many cases the transportation company will return the shipment to the sender without charge after the inspection.

The claim itself may be filed by either the shipper or consignee, but the consignee must notify the transportation company and the shipper that the damage has occurred. Remember that refusal of the shipment or failure to note the possibility of damage on the shipping documents may jeopardize the claim. Also, acceptance of a damaged shipment which has been processed properly to allow for filing a claim, will not jeopardize the position of the consignee. In any case, SKYTRON will see that damage which is not the fault of the consignee or his agents is corrected, if the transportation company does not honor the claim, as long as SKYTRON receives the full cooperation of the consignee in filing the claim.

Some of the papers needed for filing a claim are in the hands of the consignee after the shipment has been received. If SKYTRON must file a claim, we will request these papers by name from the consignee at such time as the claim is under discussion. We will require the originals of these papers and not copies.

Knowledge of the procedures outlined above and your cooperation in submitting damaged shipment claims will help both you, our customer, and SKYTRON by assuring the integrity of our products from manufacturing to installation.

Date	Revision	Revision History
7-3-2015	2	Added electrical rough-in information on dimensions schematics. Added "Note: Brackets ship with sink" to mount schematics. Changed product number F1-020-02 to F2-012-01 and F1-020-17 to F2-012-01
12-05-16	3	Updated warning symbols throughout Added part numbers S0046 and S0202 page 21 Added requirement that attachment wall must be plumb and state, local, and national codes must be adhered to for proper sink drainage page 9 Image for F-1-010-5-M measurement changed from 35-25/64" to 32-3/8"
08-25-23	4	Revised manual layout to current Skytron standards. Added (Includes Operation, Installation, Maintenance and Parts) to Cover Added SECTION 1 on page 5 GENERAL AND SAFETY INFORMATION. Added SECTION 2 on page 8 GENERAL SPECIFICATIONS. Revised SECTION 3 on page 9 INSTALLATION - SINK ASSEMBLY Added SECTION 5 on page 20 MAINTENANCE and SERVICE Added part number S0104-CU THERMOSTATIC MIXING VALVE page 22 Updated troubleshooting table. SECTION 7 on page 24 Added FSP (foot operated) & SKYKSP (knee operated soap) page 21



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