Mobile SPD Facility Requirements and Optional Packages

Power Requirements

Please note that some of these requirements may change depending on the specific unit that is provided.



Electrical Service: 480VAC, 3-phase, 60hz

• (2) 250 AMP MOP (200 AMP FLA)

• Configuration: 4 wire (L1, L2, L3, G)

• Shoreline Cable: (2) cables will be provided; facility end hard wired

• Disconnects must be within 50' of the front/nose of the unit

• Earth ground provided; installation per NEC Article 250

 (1) single point ground stud located directly under the roadside power connection

• (1) 20' ground cable with (2) clamps provided

Cold Water Supply Requirements

• 1 1/2-inch connection (#5 Roadside Belly Box, reducer to 1 1/4-inch may be required)

· External lines must be facility protected

• Dynamic pressure 50-60 psi at MSPD

Facility to provide pressure reducer if required

• Temperature: 40°F Min, 70°F Max

• 700 GPH average (70 GPM peak)

Hot Water Supply Requirements

• 1 1/4-inch connection (#5 Roadside Belly Box)

• External lines must be facility protected

• Dynamic pressure 50-60 psi at MSPD

• Facility to provide pressure reducer if required

• Temperature: 120°F Min, 140°F Max

300 GPH average (20 GPM peak)

Water Quality:

 Failure to meet STERIS water requirements may result in delayed Customer use or additional charges for equipment maintenance

| | | Cold (| Jtility | Hot Utility | | | |
|------------------------------------|-------------------------------------|--------|---------|-------------|-----|--|--|
| Specification | Units | min | min max | | max | | |
| Temp | °F | 40 | 70 | 120 | 140 | | |
| Dynamic Pressure | psi | 40 | 60 | 40 | 60 | | |
| Minimum Sediment Filtration | micron | 0 | 5 | 0 | 5 | | |
| Total Hardness as CaCo3 | opm CaCo | 50 | 150 | 0 | 17 | | |
| Total Dissolved Solids | ppm | 100 | 500 | 50 | 250 | | |
| Total Alkalinity as CaCo3 | ppm | 70 | 180 | 50 | 180 | | |
| рН | - | 6.5 | 8.5 | 6.5 | 9.5 | | |
| Conductivity | umhos/cm | 0 | 500 | 40 | 500 | | |
| Total Silica | ppm | 0 | 50 | 0.1 | 2.5 | | |
| Chloride | ppm | 0 | 10 | 0 | 10 | | |
| Cu - Copper | ppm | 0 | 0.1 | 0 | 0.1 | | |
| Fe - Iron | ppm | 0 | 0.1 | 0 | 0.1 | | |
| Zn - Zinc | ppm | 0 | 0.1 | 0 | 0.1 | | |
| Al - Aluminum | ppm | 0 | 0.1 | 0 | 0.1 | | |
| Mn - Manganese | ppm | 0 | 0.1 | 0 | 0.1 | | |
| Color/Clarity | Water should be clear and colorless | | | | | | |

Wastewater

- · 4-inch wastewater connection
- · External lines must be facility protected
- 1,000 GPH average (75GPM peak flow)
- Waste water discharge temperature will be less than 140F

Telephone and Data Connections

- STERIS will provide patch panel for IT connections
- · Customer to supply managed switch if required
- Customer must extend their IT network to the Mobile SPD for their IT provided equipment
- <u>STERIS does not provide any IT peripherals such as</u> computers, phone, or printers

Fire Sprinkler - Wet System ONLY

- Sprinkler supply: 2-inch Victaulic coupling (rear of unit)
- External lines must be facility protected
- Supply required: 143 GPM at SPD
 - o Residual Pressure 46 psi minimum at SPD

Fire Alarm Connection

- Conventional analog fire alarm system with local audible-visual, hornstrobe alarm devices for occupant warning
- Unit alarm system configured with:
- 2 zones with detection and pull stations
 - 1 zone with supervisory tamper switch on sprinkler water control valve
 - $\circ \quad \hbox{1 zone for water flow switch on sprinkler system} \\$
- System exports trouble, supervisory and alarm conditions to three dry contacts available at the rear of the unit

Heating and Cooling Connections / HVAC Condensate Drain Terminations

Nominal ¾" pipe(s) at front and rear of unit

Unit Anchoring / Tie Downs

- 2 per corner (8 total) at 9,200 lb. capacity (6,500 lb horizontal/vertical capacity)
- Locations are field specific
- Anchor points to be located approximately 45 degrees from the ground
- STERIS will provide 8 tie-down straps but does not provide any anchoring hardware

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(Last updated 1/8/2024 REV 10)

ADDITIONAL FACILITY ASSISTANCE REQUIRED (TO BE DISCUSSED PRIOR TO DEPLOYMENT)

Service Clearance & Road Plates:

- MSPD requires 75'x30' area for landing and service clearance when deployed
- Based on individual site conditions Customer to supply three
 4 ft x 8 ft x 1 inch steel road plates

Forklift:

 Forklift with capability of lifting 1,000 lbs. 6' extended forks required. Used to assist with loading and unloading of STERIS rolling equipment

Manpower (Labor)

 Labor support to assist STERIS team with loading and unloading of STERIS equipment

COLD WEATHER INSULATION PACKAGE FACILITY REQUIREMENTS.

When deploying the Mobile Sterile Processing Department in climates where the ambient temperature routinely drops and stays below 32 degrees Fahrenheit, the cold weather insulation package is a requirement.

Power Requirements for Cold Weather Package (Normal Power)

- Electrical Service: 208/240VAC, 2 pole, total of 70/80 amps 1-Phase
- STERIS will supply (4) 4000-watt 240V heaters with NEMA
- Frequency: 60hz

ANCILARY COOLING PACKAGE FACILITY REQUIREMENTS

When deploying the Mobile Sterile Processing Department in climates where the heat index consistently exceeds 100, the hot weather package is a requirement

Power Requirements for Ancilary Cooling Package (Normal Power)

- Electrical Service: 480VAC, 3-phase, 60hz
- (1) 30 AMP breakers
- STERIS will supply HVAC pre-cooling unit including all ancillary components.

STERIS Mobile SPD Site Planning and Utility Connections Guide



www.STERIS.com 800-548-4873



Introduction and Disclaimer



The purpose of this document is to provide the basic information needed for site planning. Please note that some STERIS Mobile SPD units have slight variations in dimensions, equipment layout, product portfolio, ancillary cooling packages and means of egress.

Once a specific SPD has been assigned if there are any variations from the site guide STERIS will provide any additional requirements.



Special Notes:





- 1. Prior to deployment, STERIS will perform a site visit and/or teleconference to review mechanical, electrical and plumbing (MEP) requirements with all parties involved to ensure a successful project.
- 2. Customer is responsible for all licenses, permits and any government approvals.
- 3. Customer is responsible to make all utility connections.
- 4. Power must be with 50' of the front/nose of the unit, readily available upon unit arrival and all utilities must be stubbed out to the deployment location.
- 5. STERIS can provide steps for emergency exit door only. STERIS requires the facility to provide a deck or connecting corridor to transport instruments into and out of the unit. Any connecting structure must be constructed *AFTER* the Mobile SPD arrives on site.
- 6. Any anchor tie down points must be constructed/installed after the Mobile SPD arrives onsite.



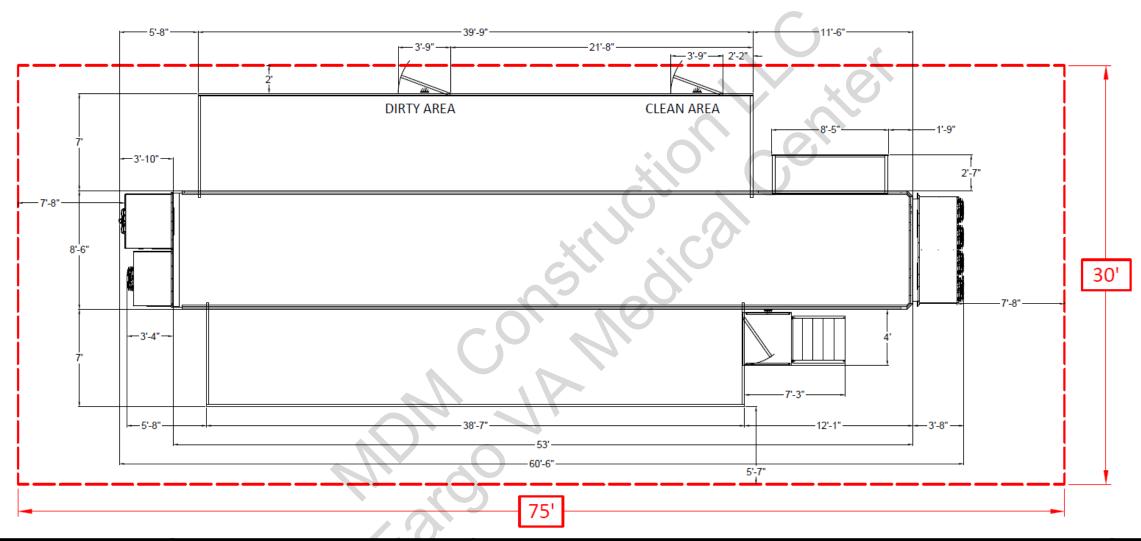
Deployment Responsibilities Matrix

| Responsibility Matrix | | | |
|--|--------------------|---------------------|--|
| Action Item | Project Phase | STERIS | Customer |
| Inquiry into a STERIS Mobile Unit solution | Lead Qualification | х | Х |
| Perform a site visit to determine Unit placement and feasibility | Lead Qualification | Х | X |
| Perform Capacity Study to validate number of Unit(s) needed | Lead Qualification | Х | Х |
| Provide facility drawings for project | Lead Qualification | | Х |
| Identify and create MSPD placement options | Lead Qualification | X | Х |
| Provide all documentation to Customer (drawings, facility requirements, layout, etc.) | Lead Qualification | X | |
| Provide quote for a Mobile Unit solution | Lead Qualification | X | |
| Sign rental agreement and issue a Purchase Order at least 4 months in advance of project | Procurement | | х |
| Project kickoff call (Mobile Solutions will lead) | Pre-Deployment | X | х |
| Provide clinical operations data to STERIS Professional Services | Pre-Deployment | | Х |
| Create and distribute a commission schedule | Pre-Deployment | X | |
| Provide MSPD project drawings | Pre-Deployment | | х |
| Meeting with Customer, Planning, and MEP Teams to review drawings, utilities, and commission | Pre-Deployment | X | Х |
| Perform or confirm a capacity study and wheels out report | Pre-Deployment | Х | |
| Perform a water sample test to ensure water meets requirements | Pre-Deployment | | x |
| Review consumables needed for start-up | Pre-Deployment | X | Х |
| Confirm site readiness for receiving the Mobile Unit(s) | Pre-Deployment | X | х |
| Coordinate logistics and resources for delivery | Pre-Deployment | X | |
| Place, level and expand Mobile Unit once it arrives on site | Commission | X | |
| Provide forklift and manpower support for unloading/loading of equipment from POD | Commission | | Х |
| Perform general commission activities (configuration, etc.) | Commission | Х | |
| Complete utilities and corridor connections | Commission | BANKER BER | Х |
| Review Unit setup and emergency protocols with Customer Facilities and BioMed | Commission | X | X |
| nspect all STERIS equipment for damage during transport | Commission | X | |
| Perform STERIS equipment start-up | Commission | X | |
| Perform testing and validation cycles | Commission | X | Х |
| Perform equipment in-service activities to all users for all shifts | Commission | X | X |
| Review the Customer Service Protocol with Customer (1-800 number) | Commission | X | X |
| Obtain signatures for individuals who received in-service training | Commission | X | X |
| Change management/transition into Mobile Unit | Commission | X | X |
| Review current processes and remove bottlenecks (scheduling, throughput, etc.) | Commission | | X |
| Determine Go-Live date | Commission | | X |
| Perform terminal cleaning activities | Commission | | X |
| Go-Live | Deployment | | X |
| Check-in calls to learn about the project status and schedule (Mobile Solutions to lead) | Deployment | X | X |
| Perform equipment preventative maintenance | Deployment | X | |
| Act as the "eyes and ears" on site for the Mobile Solutions Team (issues, feedback, etc.) | Deployment | | Х |
| Notify changes of schedule and if a contract extension is needed | Deployment | | X |
| Project call to develop decommission schedule (Mobile Solutions to lead) | Decommission | X | X |
| Publish decommission schedule | Decommission | X | |
| | Decommission | X | ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; |
| Coordinate logistics and resources for Unit removal | | .1:1:1:1:1:1:1:1:1: | X |
| Perform terminal cleaning activities | Decommission | | Х |
| erform equipment shut down and winterization activities (documentation will be provided) | Decommission | X | |
| Provide forklift and manpower support for unloading/loading of equipment to POD | Decommission | | X |
| Remove all roll-around equipment and configure Unit for transport | Decommission | X | |
| Perform secondary terminal cleaning activities for areas of removed equipment | Decommission | | Х |
| Remove all utility connections and associated ramp/corridor | Decommission | | X |
| Obtain Customer signatures to trigger Unit departure | Decommission | X | Х |





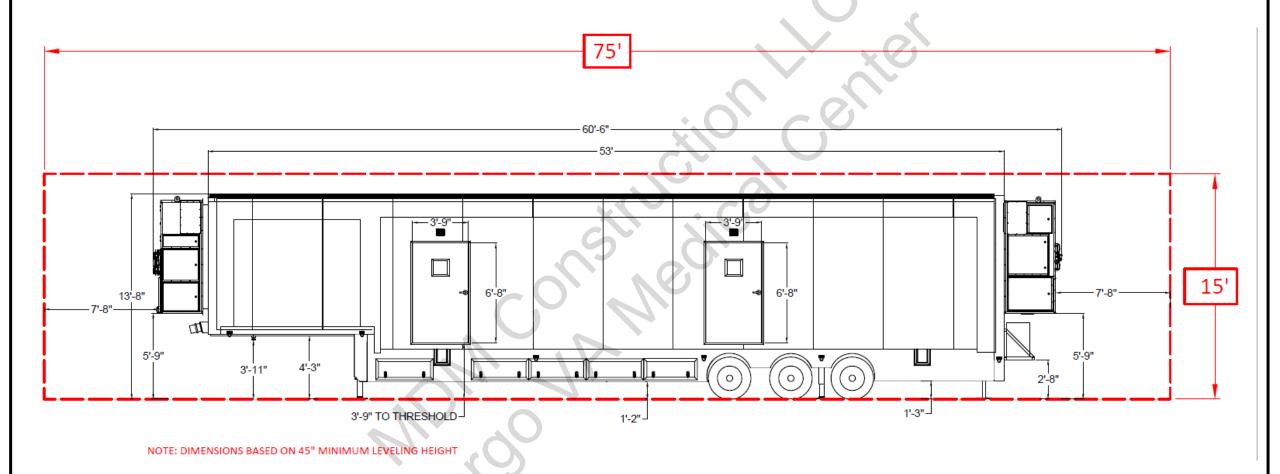
Operational Envelope





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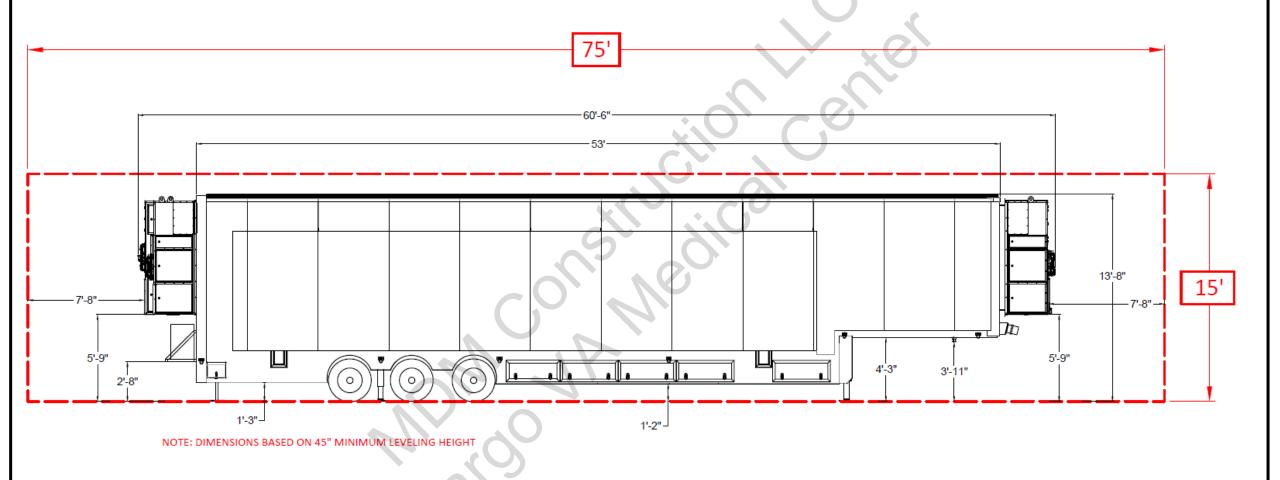
Operational Envelope Driver Side View





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Operational Envelope Passenger Side View

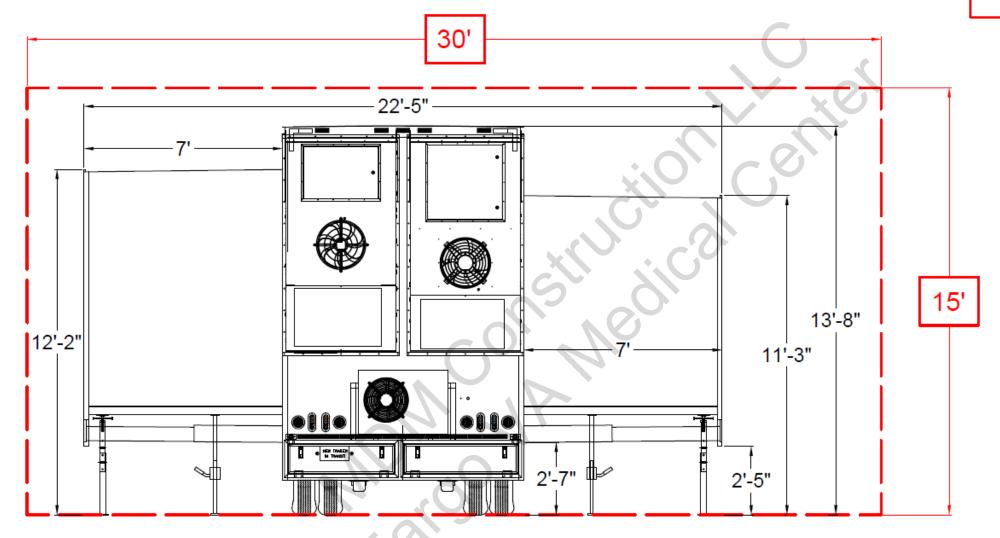




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Operational Envelope Rear View

NOTICE
The Dimensions based on 45"
minimum leveling height





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NOTICE **Operational Envelope Front View** The Dimensions based on 45" minimum leveling height 22'-5" -15' 13'-8" 12'-2" 11'-3" 2'-7" 2'-5" STERIS MOBILE SPD **Revision 21** THE MATERIAL AND INFORMATION CONTAINED HERIEN IS CONFIDENTIAL AND IS THE



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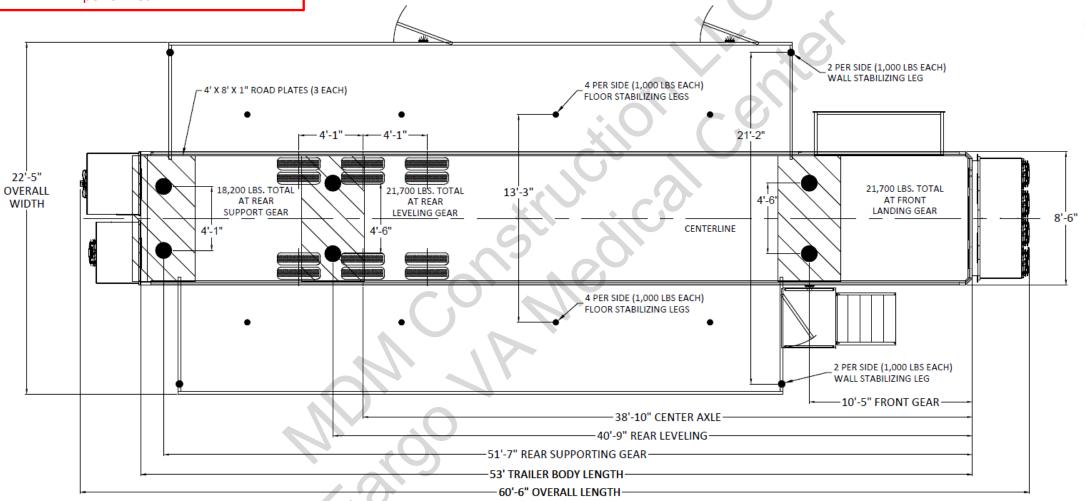
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1/8/2024

NOTICE

4' x 8' by 1" steel road plates are needed to support and distribute weight accordingly. STERIS can advise if these plates are NOT needed once a formal site visit is performed

Mobile SPD Weight Distribution





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Proper Site Preparation Procedure



Deck elevations are required to be sent to STERIS for approval prior to unit arrival. Customer should not build the deck until after the unit arrives on site.



The connecting corridor should be constructed AFTER the Mobile SPD arrives on site as there must be enough room to expand the unit and ensure an exact alignment to the connecting structure. The structure must be built to the unit (STERIS will not manipulate the unit to align with a pre-existing structure).

The Mobile SPD has the capability to raise and lower to meet various height challenges, however, the connecting structure must be built after unit arrival as there are limitations to the maximum height of the unit.



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Connecting Corridor Bumper Protection



WARNING

Customer is responsible for ensuring the protection of the exterior of the SPD unit. When installing a deck/connecting structure, please incorporate a bumper or protective rail/barrier to prevent the unit from being damaged by transfer carts.

WARNING

Customer is responsible for any damage as a result of cart transfer cart damage to the Mobile SPD or improper installation of bumpers/rails that fail to protect the SPD.



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Connecting Corridor and Weather Sealing



It is the responsibility of the Customer/contractor to ensure that all connecting corridors are installed with a sealer/expansion foam. Seals shall be installed to prevent water leaks and insects from enter the transition space between the corridor and the Mobile SPD.

Example of Proper Weather Seal







STERIS MOBILE SPD SITE PLANNING & UTILITY GUIDE

A CAUTION

When designing a connecting corridor, the facility is responsible for constructing an extension over the unit and sealing the structure to ensure that water/snow does not penetrate this connecting area.

Connecting Corridor Roof Extension

MARNING

Damage caused as a result of the installation of the connecting corridor will be the responsibility of the Customer.





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Utility Connection Drawings and Connection Points



Customer/contractor is responsible for all utility

connections. STERIS Mobile Installation Specialists will

be on site to provide guidance as needed.

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Plan View - Utility Connection Points HVAC CONDENSATE DRAINS 3/4" PCV PIPE 7 (QTY2) 480V, 3PH. 60 HZ 4 WIRE L1, L2, L3, G HVAC CONDENSATE IMPORT POWER CONNECTION COLD WATER FEED LOCATION, 1 1/2" FEMALE NPT DRAINS 3/4" PVC PIPE HOT WATER FEED LOCATION, 1 1/4" FEMALE NPT BELLY BOX #4 2" VICTAULIC CONNECTION SEWER CONNECTION, 4" FERNCO, BELLY BOX #5 FOR FIRE SYSTEM CONNECTION **BOTTOM REAR OF TRAILER** COLD WEATHER PACKAGE DATA LINE INPUT BOX - 2X RJ45 ELECTRICAL PANEL AND FIRE ALARM CONNECTIONS UTILITY CONNECTIONS **STERIS** STERIS MOBILE SPD THE MATERIAL AND INFORMATION CONTAINED HERIEN IS CONFIDENTIAL AND IS THE **Revision 21**

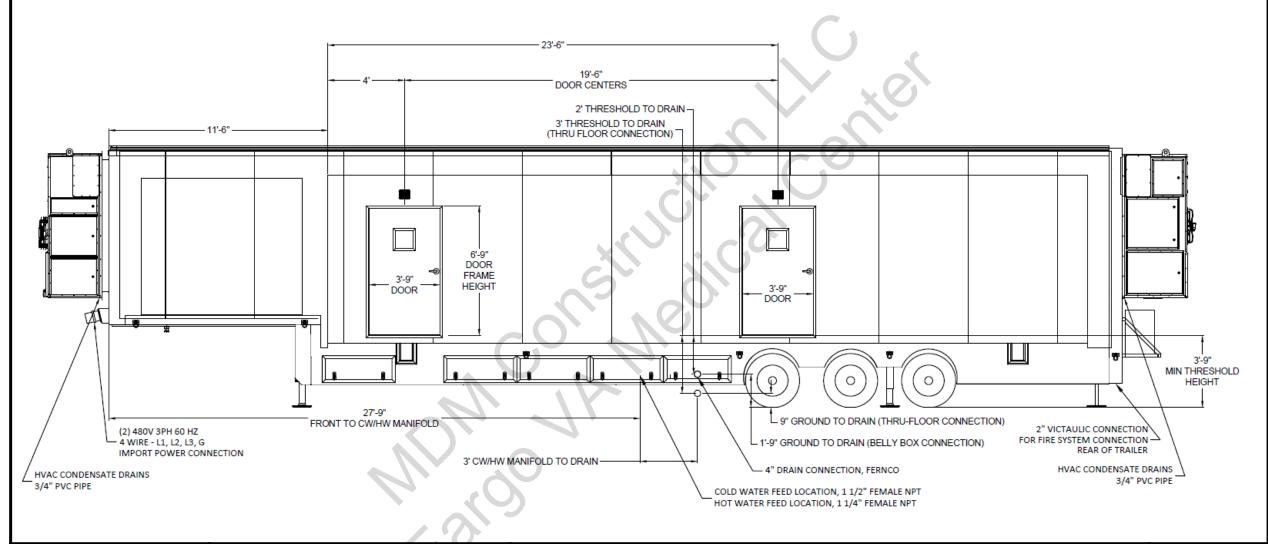


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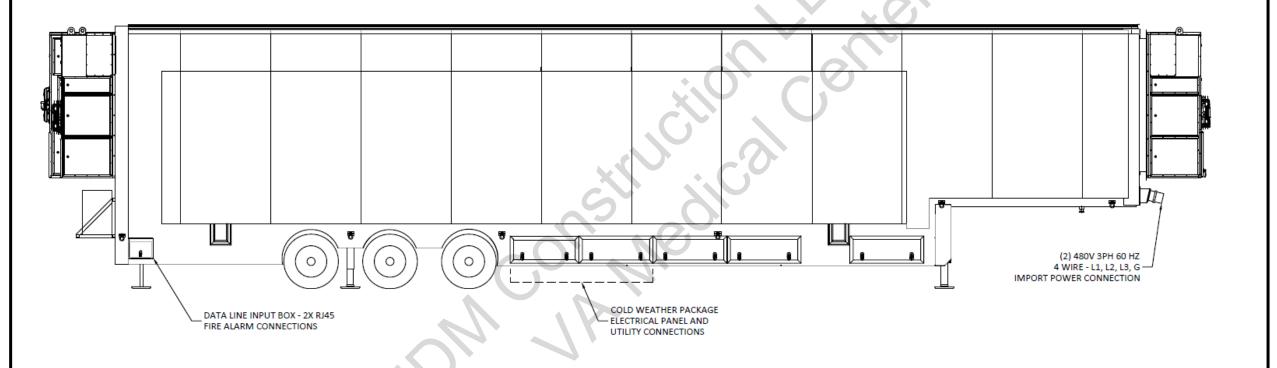
Driver Side Utility Connection Points





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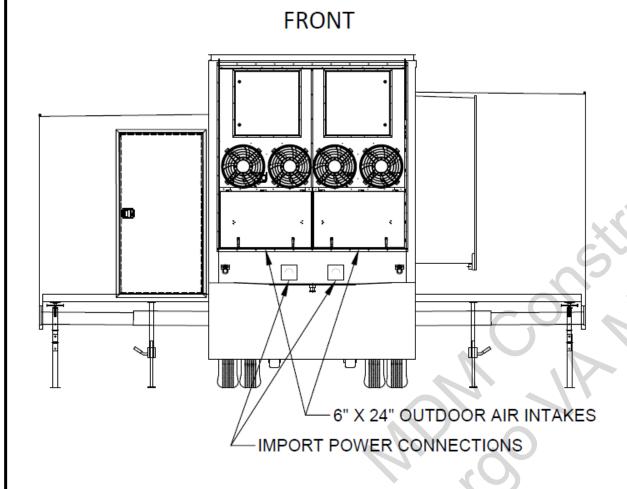
Passenger Side Utility Connection Points

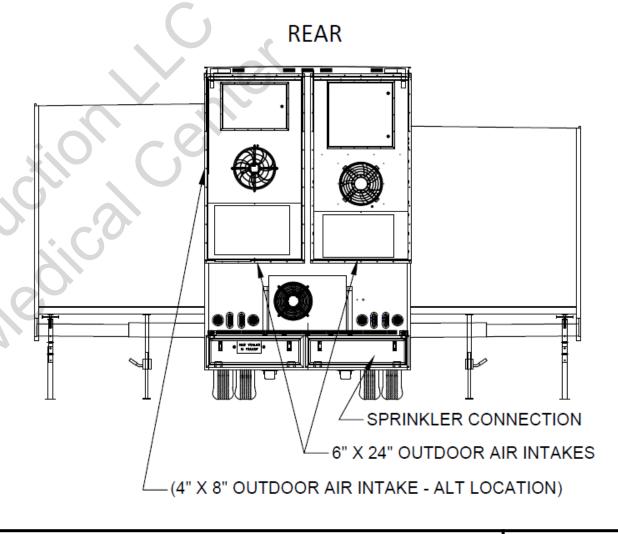




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Front and Rear Utility Connection Points







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Utility Connections Detail and Images



NOTICE

Facility/Contractor is responsible for making the final power connection from the Mobile SPD to the disconnect.

Power Connection Images and Requirements

480VAC, 3-Phase, (2) 250 AMP



Male Connection (unit)



Female Connection (shoreline)



Strain Relief



Configuration 4 wire (L1,L2,L3,G)
Frequency: 60hz



Shoreline Cable: (2) up to 75' lengths (provided)



Facility end hard wired (Customer Connection Point)



NOTICE

A Neutral is NOT needed in this configuration.



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NOTICE

Disconnect must be within 50' of the front/nose of the unit.

Power Connection Images and Requirements

Power Requirements

- Electrical Service: 480VAC, 3-phase, 60hz
- (2) 250 AMP MOP (200 AMP FLA)
- Configuration: 4 wire (L1, L2, L3, G)
- Shoreline Cable: (2) cables will be provided; facility end hard wired
- Disconnects must be within 50' of the front/nose of the unit
- Earth ground provided; installation per NEC Article 250
- (1) single point ground stud located directly under the roadside power connection
- (1) 20' ground cable with (2) clamps provided

Cable: 3/0 Type W, With Meltric Connector PT# 39-28243-K04 With PT# 596P0N25 Handle

Facility Connection: Hard wire

Trailer Connection: Meltric Inlet PT# 39-24243-K04 and PT# 596M6 Angled Box





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WARNING

Failure to install the ground stud and cable could result in damage to the STERIS Mobile SPD and STERIS equipment.

Ground Point Images and Requirements

NOTICE

- Earth grounding point and grounding kit provided
 - (1) Single point ground stud
 - (1) 20' ground cable
 - (1) Ground rod
 - (2) Clamps provided
- Installation by facility per NEC article 250





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∴ CAUTION

Customer installer to trim raw end of pig tail only. Keep cable length as long as possible.

Product Construction:

Conductor:

 8 AWG through 500 kcmil fully annealed stranded bare copper

Insulation:

- Premium-grade, color-coded 90 C EPDM
- Color code: see chart

Jacket:

- Super Vu-Tron 90 C, black
- Temperature range: -40 C to + 90 C

Jacket Marking:

 Carol Super VU-Tron (size) Type W portable power cable (UL) 2000V dry 90 C wet 75 C sun res CSA (-40 C) FT-5 P-7K-123049 MSHA

Power Connection Images and Requirements

NOTICE

Specifications may vary by unit. (Units 104-107 are 2/0 and units 108+ are 3/0

(Super Vu-Tron Multi-Conductor Type W Round)

90 C (UL) Type W 2000 Volt Portable Power Cable)



| Color Code Chart | Color | | |
|-------------------|--------------------------|--|--|
| No. of Conductors | | | |
| 4 | Black, White, Red, Green | | |

| | | | | | Nominal C | ond. O.D. | Nominal Thickness Ins. | | Nominal O.D. | | | |
|----|-------|--------|----|-------|-----------|-----------|------------------------|------|--------------|------|---------|--------------|
| No | o. of | AWG or | C | ond. | | | | | | | Current | Approx. Net |
| Co | nd. | kcmil | Si | trand | inches | mm | inches | mm | inches | mm | AMPs | Wt. LBS/M(s) |
| | 4 | 2'/'0 | | 259 | 0.475 | 12.07 | 0.08 | 2.03 | 1.925 | 48.9 | 237 | 3228 |
| | 4 | 3'/'0 | 3 | 259 | 0.480 | 12.19 | 0.08 | 2.03 | 2.055 | 52.2 | 274 | 4048 |

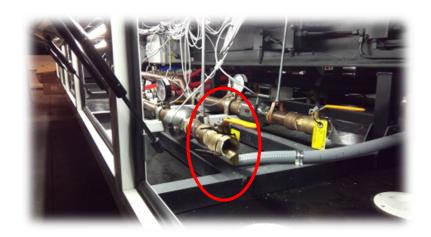


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Hot and Cold Water Supply Images and Requirements

Water Manifold (Customer Connection Point)

1 1/4-inch NPT Fresh - Water Fill Port - Hot



NOTICE

- 1. Connection sizes indicate the equipment termination sizes only.
- 2. Size of supply piping is dependent on length of pipe run to ensure adequate supply service pressure and demand flow at equipment terminals.
- 3. Effect of coincident draw of multiple unit installations must also be considered.

Water Manifold (Customer Connection Point) 1 1/2-inch NPT Fresh - Water Fill Port - Cold



Hot Water Supply Requirements

- -1 1/4-inch connection (#5 Roadside Belly Box)
- -External lines must be facility protected
- -Dynamic pressure 50-60 psi at MSPD
- -Facility to provide pressure reducer if required
- -Temperature: 120°F Min, 140°F Max
- -300 GPH average (20 GPM peak)



Cold Water Supply Requirements

- -1 /1/2-inch connection (#5 Roadside Belly Box, reducer to 1 1/4-inch may be required)
- -External lines must be facility protected
- -Dynamic pressure 50-60 psi at MSPD
- -Facility to provide pressure reducer if required
- -Temperature: 40°F Min, 70°F Max
- -700 GPH average (70 GPM peak)



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Waste Water Images and Requirements

NOTICE

Waste flow will vary depending on the frequency of equipment operation in the unit.

Belly Box Waste Water Access Point (Belly box location)



NOTICE

It is highly recommended that a P-Trap be installed on the waste line to minimize the potential for foul odors.

Waste Water

- 4-inch waste water connection
- 1,000 GPH average (75GPM peak flow)
- · Waste water line must be facility protected
- Waste connection can be connected through the side of the belly box door or the bottom of the floor.
- Waste water discharge temperature will be less than 140F



NOTICE

Drain can't be connected to a grease trap or grease interceptor line.

4" Waste Water Connection (Belly box floor option)





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Fire Sprinkler Images and Requirements



Fire Sprinkler Requirements

- External lines must be facility protected
- Supply required:

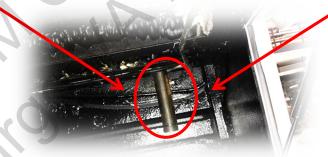
Residual Pressure 46 PSI minimum at SPD

Flow Rate: 143 GPM at SPD

2-inch Victaulic coupling



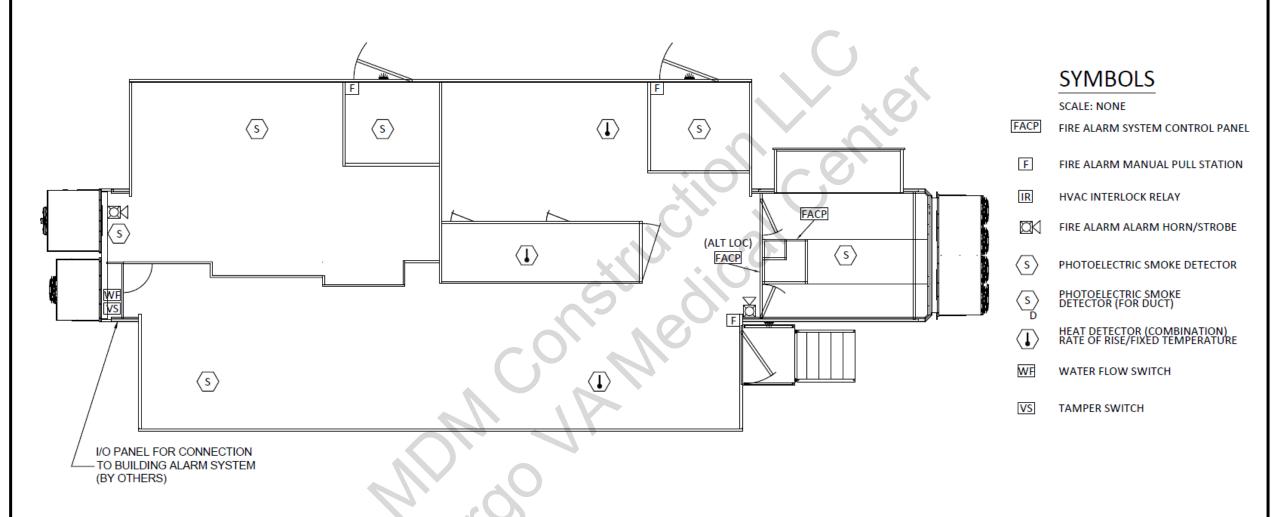
Consider a close source such as a fire hydrant where allowed by local municipalities and follow local laws and codes prior to making any connections.





STERIS MOBILE SPD SITE PLANNING & UTILITY GUIDE

Fire Alarm System Drawing





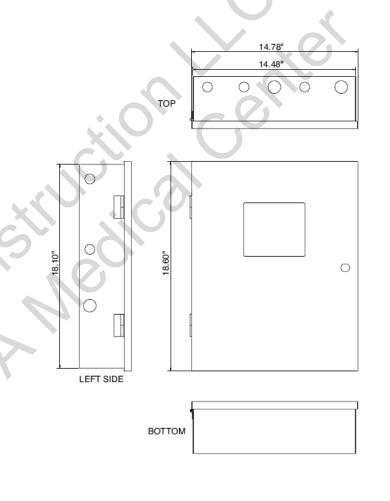
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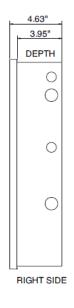
Fire Alarm System Drawing

Example of fire panel shown, actual fire panel may vary

Fire Alarm Panel









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Fire Alarm Matrix

| | Facility Remote Activation | Manual Pull Stations | Area Smoke/Heat Detectors | Sprinkler Waterflow Switch | Sprinkler Shut Off Tamper Switch | Unit Power | Alarm Battery Back-Up | General Alarm System Errors |
|---|----------------------------------|-------------------------|---------------------------------|----------------------------------|--|---------------|--------------------------|--------------------------------|
| Alarm | х | Х | Х | Х | | | | |
| Supervisory | | | | | Х | | | |
| Trouble | | | | | 9 () | х | Х | Х |
| Activate Audio/Visual Alarm Signals Throughout Unit | х | х | Х | X | CO) | | | |
| Unit Alarm Panel Tone and Signal | | | ~0° | 100 | х | x | x | х |
| Export To Alarm Contact | х | х | × | х | | | | |
| Export To Supervisory Contact | | | .0 | | х | | | |
| Export to Trouble Contact | | | | | | x | x | х |



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Fire Alarm Images and Requirements

Fire Alarm Connection Customer Connection Point

Fire Alarm Remote Dry Contacts



NOTICE

The fire alarm system has no capability to repeat or react to external alarms or external PA systems.





- Conventional analog fire alarm system with local audiblevisual, horn-strobe alarm devices for occupant warning.
- Unit alarm system configured with:
 - 2 zones with detection and pull stations
 - 1 zone with supervisory tamper switch on sprinkler water control valve
 - 1 zone for water flow switch on sprinkler system
- System exports trouble, supervisory and alarm conditions to three dry contacts available at the rear of the unit.







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Data Images and Requirements

Data Connection Box Customer Connection Point (Rear of Unit)



■ STERIS

MOBILE SOLUTIONS

Data Connection Box (Interior)
Two RJ45 Connection Points



Customer must extend their IT network to the Mobile SPD for their IT provided equipment.

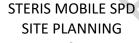
CAUTION

If fiber optic cable is required, STERIS coordination for cable routing will be required.

RJ45 Connections Provided Throughout the Unit

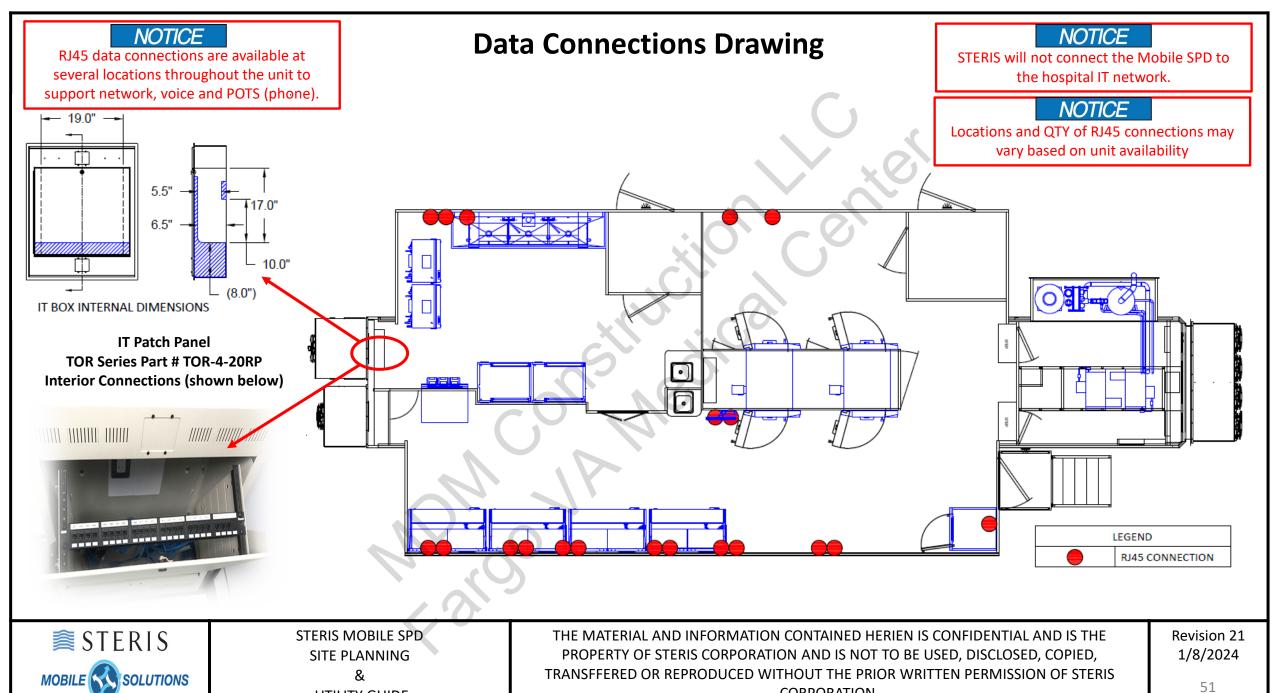






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HVAC Condensate Images and Connections

Front of Unit



NOTICE

If condensate from the HVAC units is not captured, the condensate will drain to ground. HVAC drains must be run with a Customer installed air gap.

Heating and Cooling Connections/ HVAC Condensate Drain Terminations

- Nominal 3/4" drain at front and rear of unit



Rear of Unit







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Utility Connection Inside the Mobile SPD



Cold Weather Package

Power Requirements

- Electrical Service:
- 208VAC, 2 pole, total of 70 amps, 60 HZ, Single Phase or 240VAC, 2 pole, total of 80 amps, 60 HZ, Single Phase
- STERIS will supply (4) 4,000 watt 240V heaters with NEMA 6-30 plugs
 - Customer is responsible to provide one 208V or 240V single phase 60 Hz 70/80 amp feed (hard wired to lugs in panel) to STERIS provided panel.

STERIS Provided Heaters



Customer Provided Power





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Revision 21 1/8/2024

A CAUTION

When deploying the Mobile SPD in climates where the ambient temperature routinely drops and stays below 40 degrees Fahrenheit, the cold weather insulation

package is a requirement.