

Himalayan Salt Feature White LED



Small Salt Feature / Large Salt Feature / Salt Wall

Installation and Operation Manual

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SAFETY & WARNINGS



PLEASE READ THIS MANUAL IN ITS ENTIRETY PRIOR TO INSTALLATION

Qualified Personnel Only: Installation of lighting components and piping must be performed by a certified electrician, following all national electric code and local building code requirements

Equipment Protection: Install the power supply and driver in a location protected from humidity, high temperatures, and water. Do not install inside Sauna as this will cause equipment failure.

MAII Support: Ensure the wall that the Himalayan Salt Feature will be installed on will be able to support the weight of the salt feature. See page #5 for total load.

CAUTION Sharp Objects: Stainless Steel mounting channel has sharp edges and should be handled with care. It is recommended to wear cut resistant gloves when handling channel.

The steps provided in this manual are meant as a guide and may differ based off the install. It is important that the installer fully understands these instructions to be able to make any necessary changes to accommodate the install.

Himalayan Salt:

- **Humidity:** Himalayan Salt is a natural element and will absorb humidity. In higher humidity rooms this may become more visible on the bricks as they sweat.
- **Salt Crystals:** Over time, salt crystals may form on the surface of the bricks, especially in higher humidity rooms. This is normal and can simply be wiped off..
- **Salt Color:** Himalayan Salt is a natural element. The color of each brick is listed as "Pink" or "White". The colors can vary, including lighter or darker shades. This variation is a natural characteristic of the salt.

LED Handling Precautions:

- **Uncoil LED Before Powering:** Do not connect power to the LED light while it is still attached to the spool or coiled up. Unwind the light completely before powering it on.
- Avoid Damage: Refrain from folding or twisting the LED light, as this can cause physical damage to the LED and lead to malfunctions.

Electrical Requirements

Always disconnect power from the system at the circuit breaker before performing any electrical installation or maintenance.



- Power Source: The lighting system requires a 120VAC power outlet.
- Qualified Electrician: A qualified electrician must determine the appropriate electrical outlet type, box configuration, and wiring to ensure compatibility and safety.
- **Electrical Safety:** Using incorrect voltage or improper electrical connections can damage system components and void warranty.

Required Tools / Material



Tape Measure

Level Square Hammer

Circular Saw (or table saw)

Drill/Driver

Ladder

Gloves (cut resistant)

Safety Glasses

Required Building Material



Specifications



	Power Supplies													
Rated Power	Input Voltage	Output Voltage	AC Current	DC Current	Operating Temperature	IP Rating	Certification							
90 Watt	120 VAC	24V DC	1.3A	3.75A	-22°F to 158°F	IP20	UL / CE / FCC							
120 Watt	120 VAC	24V DC	1.4A	5A	-22°F to 158°F	IP20	UL / CE / FCC							
160 Watt	120 VAC	24V DC	1.85	6.67A	-22°F to 158°F	IP20	UL / CE / FCC							

	Driver													
	Input Voltage	Output Voltage	Rated Out Current	Max Output Power	Light Capacity	Operating Temperature	IP Rating	Certification						
Driver	24 VDC	24 VDC	9A	200W	4 Lights / 25' (per driver)	-4°F to 131°F	IP20	CE / EMC						

	Dimming Control												
	Output Operating Operational Dimming Signal Zones Operating Temperature IP Rating Certification												
Dimming Control	RF (433MHz)	Self-Powered (No Battery)	200,000 Switchings	1% - 100%	100FT	1 Zone Single Color	14°F to 104°F	IP67	CE				

White LED Light (single light)												
	Length Operating Voltage Wattage Lumens Kelvin Temperature Temperature Certification											
White LED Strip	4FT	24 VDC	12W (3W per foot) 313 per ft		3500K	-13°F to 230°F	ETL / SGS					

			Salt	Feature	Specification	ons			
	Small Salt Feature 4" x 48"	Small Salt Feature 12" x 48"	e Feature Feature		Large Salt Feature 48" x 48"	Salt Wall 60" x 48"	Salt Wall 72" x 48"	Salt Wall 84" x 48"	Salt Wall 96" x 48"
Salt Feature Size (finished dimension)	1 4" y 48" 11)-1/4" y 48" 1)4-5/8" y 48" 13		37" x 48"	49-3/8" x 48" 61-3/4" x 48"		74-1/8" x 48"	86-1/2" x 48"	98-7/8" x 48"	
Framed Opening Size	6" x 54"	14-1/4" x 54"	26-5/8" x 54"	39" x 54"	51-3/8" x 54"	63-3/4" x 54"	76-1/8" x 54"	88-1/2" x 54"	100-7/8" x 54"
LED Strip Quantity	Strip Quantity 1 3 6		6	9	12	15	18	21	24
Total Wattage	12W	36W	72W	100W	144W	180W	216W	252W	288W
Salt Feature Weight 34lbs +		97lbs +/-	192lbs +/-	286lbs +/-	381lbs +/-	476lbs +/-	571lbs +/-	666lbs +/-	760lbs +/-

	Himalay	Himalayan Salt Brick													
Color	Material	Material Weight (per brick)													
Pink	Natural Pink Himalayan Salt	5lbs	4"H x 8"L x 2"D												
White	Natural White Himalayan Salt	5lbs	4"H x 8"L x 2"D												

	Stainless Steel Channel													
	Material	Material Weight Dimensions Profile												
End Cap Channel	Stainless Steel	1.6lbs	4"H x 8"L x 2"D	1										
Mounting Channel	Stainless Steel	1.6lbs	4"H x 8"L x 2"D											



Images Shown Below for Reference

Phase 1: Framing

Stud Wall Framing:

- Identify the wall that the Salt Feature will be built
- The stud wall must be framed to provide adequate structural support for the weight of the salt feature. The use of 2x4 wood studs is recommended.
- Salt Feature will be built recessed in the stud wall and requires a framed out section to the size of the salt feature. This framed out section will be built the same as a window opening, (see figure #1)

Note: Refer to Specifications page #5 for the framed opening dimensions.



Plywood Backer:

- Once the wall is framed for the salt feature the plywood backing needs to be installed. This requires 2x4 boards and 3/4" hardwood plywood.
- Cut 2x4 boards to the width of the framed out opening and install horizontal in the opening at the back. It is recommended to install one board every 16", (see figure #2).
- · Next take plywood and cut to the dimension of the framed opening. Place plywood into opening and screw to previously installed 2x4 boards, (see figure #3).
- Line salt feature and wall with Vapor Barrier. Note: If using multiple plywood sheets ensure seems are supported from behind with additional 2x4 boards.



Figure #3



Caution! Use gloves when handling track

Phase 2: Lighting Wire Runs

Important: Ensure all electrical is performed by a licensed electrician and complies with local codes.

Wiring Runs:

- Each LED light will require a wire run, cables provided with each kit. Identify your kit and the number of LED cables.
- Run a minimum 1" conduit from the salt feature to the location where the lighting power supply and controls will be installed (see figure #4).
 - Note: For larger salt features multiple conduit runs or larger size conduit may be necessary.
- Pull all 2-pin light cables from the salt feature back to control system.

Phase 3: Salt Block Track / LED Lighting

Salt Track:

 Position the End Cap Channel at the bottom of the framed opening. Secure it using 3/4" lath screws, inserting the screws through the pre-drilled holes on the channel.

Note: Framed opening is designed to be wider than the track to allow for wiring connections, (see figure #5).

 Uncoil the LED strip. Measure 2" vertically from the top edge of the installed channel and mark a level line. Remove the adhesive backing from the LED strip and carefully adhere it along the marked line making sure the LED strip is centered.

Note: It is recommended to test each LED strip prior to installing.

- After adhering the LED strip, use a hammer to install mounting clips. Position one clip at least every 16".
- Repeat the above steps for each additional row of salt track and LED light. See Phase 4 for salt brick install.



<u> </u> IMPORTANT

See Page #11 for Customizing Length of Himalayan Salt Feature

Images Shown Below for Reference





Figure #5



Figure #6

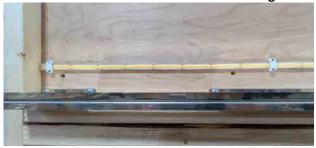


Figure #7





Caution! Use gloves when handling track

Phase 4: Himalayan Salt Bricks

Salt Bricks:

 Begin by placing two bricks onto the installed track as shown in Figure #8. Note that each brick has notches that are off-center. Position the bricks so that the shorter notched section faces the wall, the longer section faces outward.



- Take the next section of salt track and carefully set it into the notches on the top of the placed salt bricks as shown in Figure #9. Secure the track using 3/4" lath screws. The rest of the track will get screwed down later.
- Continue sliding additional salt bricks into the row, (see figure #10).
- Once all salt bricks are positioned in the row, finish securing the track by installing the remaining screws.
- For the final top row, install an End Cap Channel instead of a mounting Mounting Channel. Secure using 3/4" lath screws.
- Repeat the above steps for each additional row of salt and track.

Cutting Salt Bricks (optional):

- The salt bricks can be arranged in various patterns, such as a staggered brick pattern. To achieve certain patterns, it may be necessary to cut some of the bricks (see figure #11).
- A wet tile saw is recommended for cutting salt bricks. It produces the cleanest cuts and minimizes dust.

Note: Alternatively a table saw or miter saw can be used. Due to the corrosive nature of salt, it is important to thoroughly clean the saw and remove all salt dust to prevent damage to saw.





See Page #11 for Customizing Length of Himalayan Salt Feature

Images Shown Below for Reference



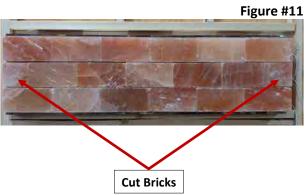
Figure #9



Figure #10



Brick Pattern





Phase 5: Lighting Connections/Control System

LED Light Connection:

- After completing Phase 1 thru 4, begin connecting the LED lights to the light cables run in Phase 2.
- At each light take 1 cable and connect it to the corresponding pigtail from the LED light. It is recommended to work either from the top down or bottom up to maintain organization, (see figure #12).

Control System:

- The control system, including the power supply, should be installed in a dry accessible location to prevent damage. It is important that the control system is not installed in the sauna room due to the high heat and humidity which can lead to equipement failure.
- Ensure there is a dedicated 120V electrical outlet rated for a minumum of 15amps. While a GFCI outlet can be used, it is not required.
- Carefully follow the wireing diagram provided to make all necessary connections at the driver and other control components.

Note: Refer to the diagrams on pages 13-17 for the specific setup that corresponds to your salt feature size.

- After making all connections, verify that they are secure both at the salt feature and control system location.
- Once all connections have been verified, plug in the power supply to the 120V outlet. Test the light function using the remote. Refer to page 12 for detailed instructions on control operation.

Note: If you encounter and issues with operation see troubleshooting page #22.

Images Shown Below for Reference

Figure #12



Phase 6: Wall Cladding / Furring Boards

Furring Boards:

- Determine the desired orientation of the tongue and groove (T&G) wall boards. Create a minimum 1.5" standoff from the stud wall using furring strips. In this example the wall boards will be installed vertically (see figure #13).
- Install furring boards, ideally 2x4 boards, spaced approximately every 24"
- A furring board must be installed at the top and bottom edges of the salt feature.

Wall Boards / T&G

- Once the furring boards are installed, gather the wall boards.
- Begin installing wall boards from either the left or right side.
 - **Note:** Ensure the first wall board is perfectly plumb with the salt feature and periodically re-check plumb every few boards as you approach the salt feature.
- Depending on the specific wall boards used, it may be necessary to cut them to fit around the salt feature boarder.

Images Shown Below for Reference









! IMPORTANT

Only width can be modified. Salt Bricks, Track, and LED will need to be cut.

Custom Width

To modify the width of your Salt Feature follow the steps below for cutting the Salt Bricks, Track, and LED Strips.

LED Strip (Phase 3)

- LED strips can only be cut every 1.978" refer to Figure #14 for guidance.
- First determine the desired width for your salt feature.
- Then, divide the feature's desired width by 1.978" to calculate the number of cut points.
- Example: For a 36" feature, divide 36" by 1.968", which equals 18.29". This gives you 18 cut points resulting in a width of 35.42".

Note: The cut LED strip will be shorter than your desired salt feature width by no more than 2"

 After cutting the LED strip, apply silicone and install the new cap on the cut end.

Mounting Channel/End Caps (Phase 3)

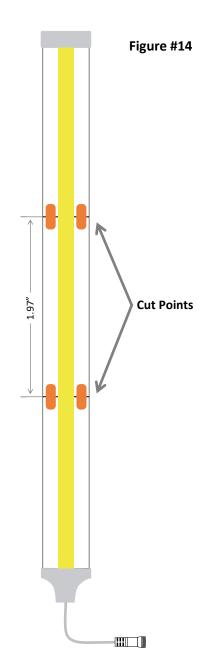
Warning: Sharp Eges. Wear Safety Glasses When Cutting.

- For cutting the mounting channel and end cap, we recommend using either a circular saw or an angle grinder equipped with a blade specifically rated for cutting metal.
- Mark the channel at your desired width. This should be the total width of the salt feature and can be up to 1/2" shorter.

Salt Bricks (Phase 4)

 A wet tile saw is recommended for cutting salt bricks. It produces the cleanest cuts and minimizes dust.

Note: Alternatively a table saw or miter saw can be used. Due to the corrosive nature of salt, it is crucial to thoroughly clean the saw and remove all salt dust to prevent damage to saw.



Control Operation



Control Operation

See the image below for control operation. When installing the control verify maximum operating temperature of the control is not exceeded.

- Do not install control within 3ft of sauna heater.
- Do not install control higher than 30" off finished sauna floor.



Driver & Remote Programming

Note: The wireless remote comes preprogrammed with the driver. Follow the steps below if programming is needed.

- On each driver press and hold the button for 7 seconds, this will put the driver into bridge mode. The LED indicator light will pulse.
 - **Note:** For systems with only one driver skip this step and proceed to the next step.
- Press and hold the button on the driver for 3 seconds to enter program mode. The indicator light will flash slowly. With multiple drivers repeat this for each driver.
- Quickly press the remote switch, the indicator light on the driver will go off indicating successful pairing.

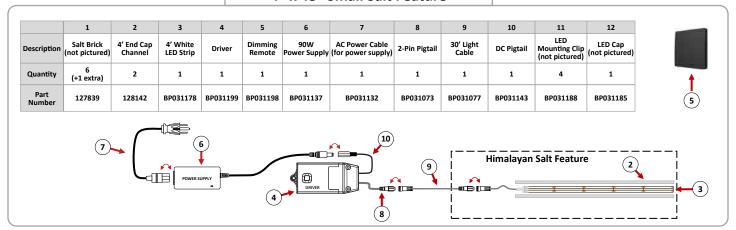


Note: If you encounter any issues during startup and testing, proceed to the troubleshooting steps.

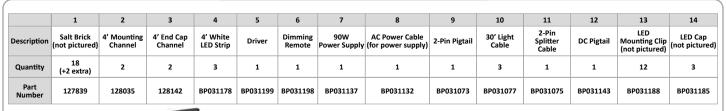


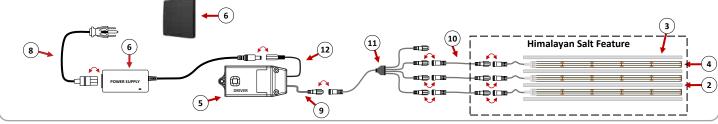
Refer to your order for your Salt Feature Size

4" x 48" Small Salt Feature

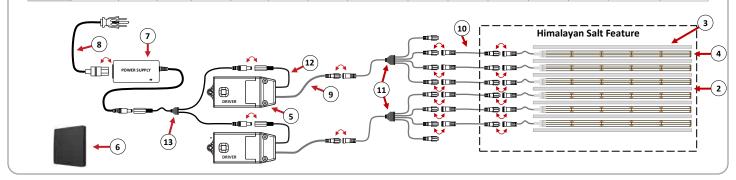


12" x 48" Small Salt Feature





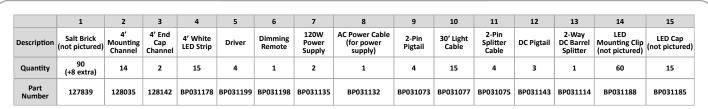
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Description	Salt Brick (not pictured)	4' Mounting Channel	4' End Cap Channel	4' White LED Strip	Driver	Dimming Remote	90W Power Supply	AC Power Cable (for power supply)	2-Pin Pigtail	30' Light Cable	2-Pin Splitter Cable	DC Pigtail	2-Way DC Barrel Splitter	LED Mounting Clip (not pictured)	LED Cap (not pictured)
Quantity	36 (+4 extra)	5	2	6	2	1	1	1	2	6	2	2	1	24	6
Part Number	127839	128035	128142	BP031178	BP031199	BP031198	BP031137	BP031132	BP031073	BP031077	BP031075	BP031143	BP031114	BP031188	BP031185

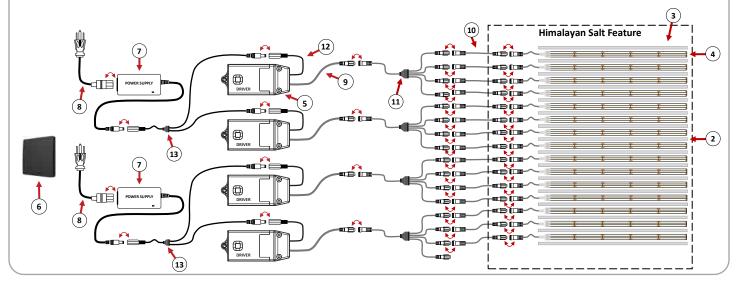




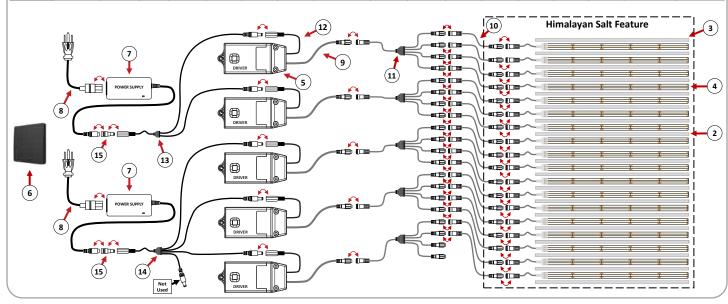
Refer to your order for your Salt Feature Size

60" x 48" Large Salt Feature



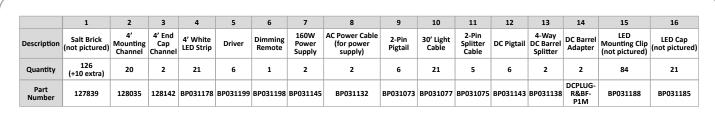


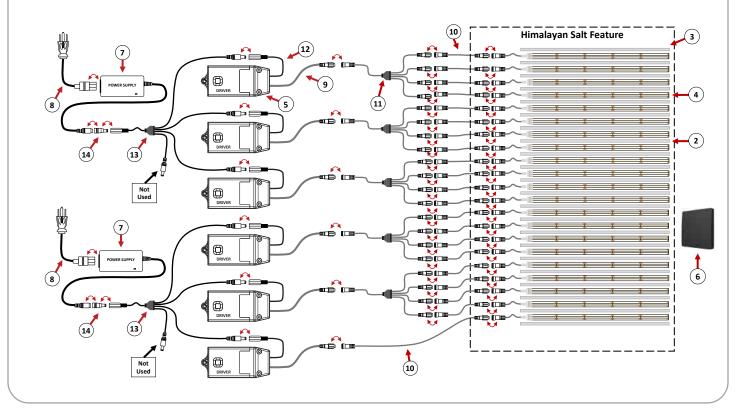
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Description	Salt Brick (not pictured)	4' Mounting Channel	4' End Cap Channel	4' White LED Strip	Driver	Dimming Remote	160W Power Supply	AC Power Cable (for power supply)	2-Pin Pigtail	30' Light Cable	2-Pin Splitter Cable	DC Pigtail	2-Way DC Barrel Splitter	4-Way DC Barrel Splitter	DC Barrel Adapter	LED Mounting Clip (not pictured)	LED Cap (not pictured)
Quantity	108 (+9 extra)	17	2	18	5	1	2	2	5	18	5	5	1	1	1	72	15
Part Number	127839	128035	128142	BP031178	BP031199	BP031198	BP031145	BP031132	BP031073	BP031077	BP031075	BP031143	BP031114	BP031138	DCPLUG- R&BF- P1M	BP031188	BP031185





Refer to your order for your Salt Feature Size





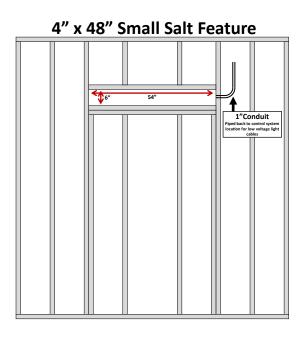


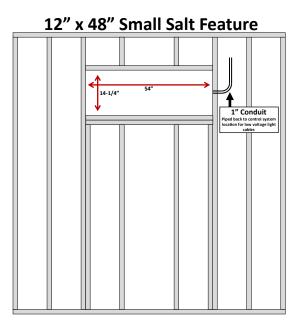
Refer to your order for your Salt Feature Size

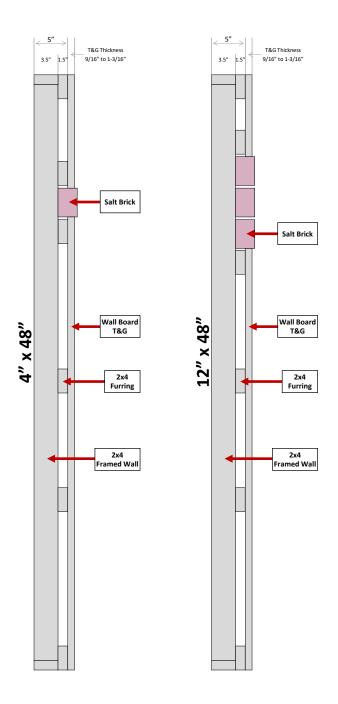
96" x 48" Large Salt Feature 16 LED Mounting Clip (not pictured) 4' Mounting Channel 4' End Cap Channel 160W AC Power Cable 2-Pin Splitter Cable DC Pigtail 4-Way DC Barrel Splitter Salt Brick (not pictured) 4' White LED Cap (not pictured) Dimming Remote 30' Light Cable DC Barrel Power Supply (for power supply) 144 (+12 extra) Quantity DCPLUG-R&BF-P1M 127839 128035 128142 BP031178 BP031199 BP031198 BP031145 BP031132 BP031073 BP031077 BP031075 BP031143 BP031138 BP031188 BP031185 Himalayan Salt Feature -----111 **----**(13) **₩**(□ Not Used **₩ ----**(----**====**(□== **===**(□== (13) **===**(== -----------

Small Salt Feature Framing







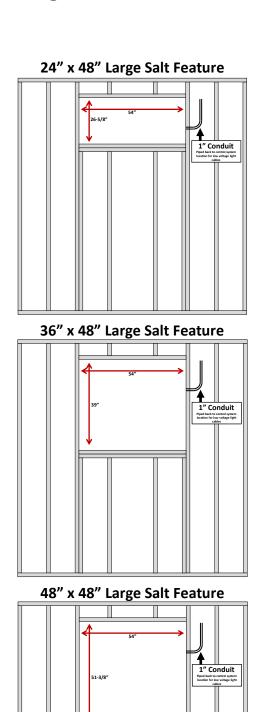


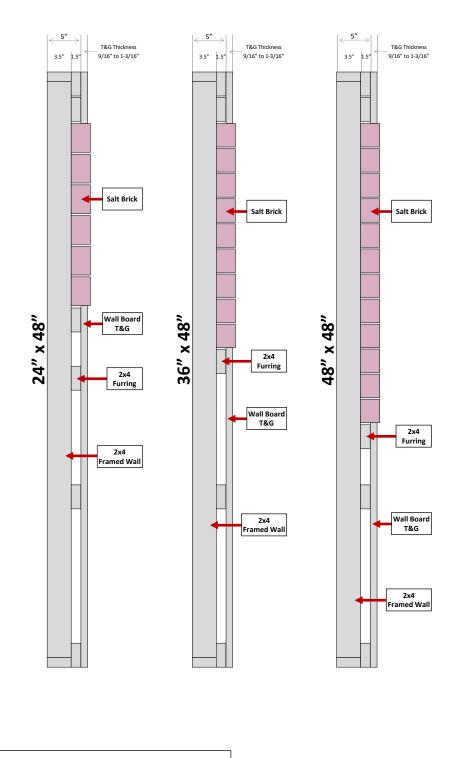
Follow all local building codes for framing.

Above diagrams are for reference only

Large Salt Feature Framing







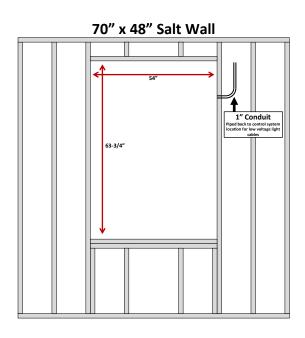
Follow all local building codes for framing.

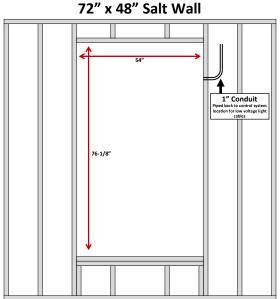
Above diagrams are for reference only

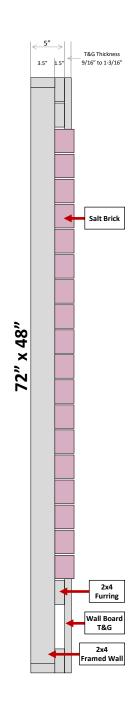
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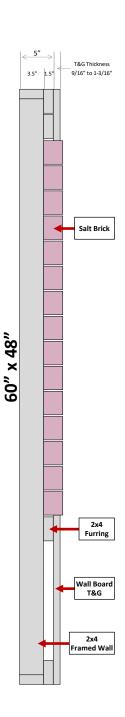
Salt Wall Framing









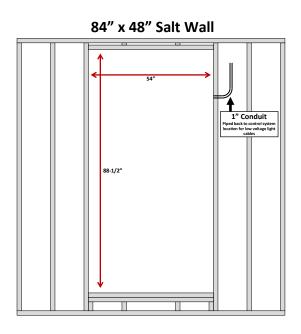


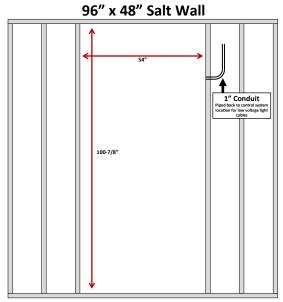
Follow all local building codes for framing.

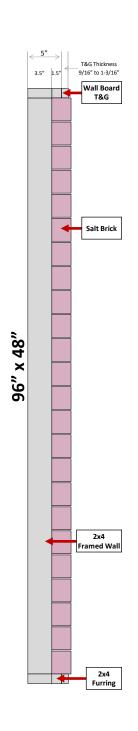
Above diagrams are for reference only

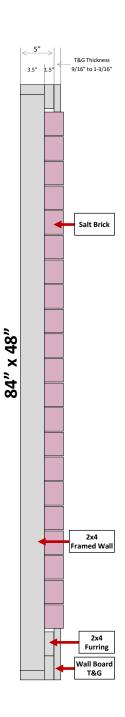
Salt Wall Framing











Follow all local building codes for framing.

Above diagrams are for reference only

Troubleshooting



No Power

- **Verify Outlet Voltage:** Use a voltage tester to confirm that the outlet is providing the correct voltage (approximately 120VAC).
- **Check Circuit Breaker:** If there is no voltage at the outlet, inspeck the cicuit breaker in the electical panel to ensure it has not tripped. Reset the breaker if necessary.
- **Inspect Power Connections:** Carefully verify that all power connections are secure and correctly connected:
 - Power Supply Connection: Check the connection between the power supply and the 120V power source.
 - DC Connection: Check the connection between the DC plug from the power supply and DC splitter.

Power Present, Lights Not Illuminating

- Check Driver Output Connections: Ensure that the cable from the drivers output (pigtail cable) is securely connected.
- Check 4-Way Light Cable Connections: Verify that the 4-way light cable is securely connected.
- Check 30' Light Cable Connections: Confirm that all 30' light cables connecting to each light are securely connected at both ends.
- **Test Individual LED Strips:** To isolate the problem, test each LED strip individually by connecting it directly to the driver.
 - **Note:** To test an individual light, disconnect the 4-way splitter and connect the 30' cable directly to the pigtail lead from the driver.
- **Verify Remote Pairing:** Confirm that the remote is properly paired with the driver, see page 11 for pairing.

Lights On, No function from Control

- **Verify Remote Pairing:** Confirm that the remote is properly paired with the driver, see page 11 for pairing.
- **Check Remote Distance:** Ensure that the distance between the Remote to the Driver is within the specified range (100').

Resetting Driver

The Driver should not require resetting under normal conditions. If a reset is needed, follow the steps below.

- Verify Driver Power: Ensure that the driver is receiving power.
- Initiate Reset: Press and hold the button on the driver for 15 seconds until the LED indicator goes out.

Note: Resetting Driver will clear any paired remotes and require repairing, (see page 11).

PRØSAUNAS

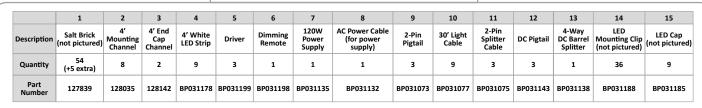
Technical Support (224) 253-5909

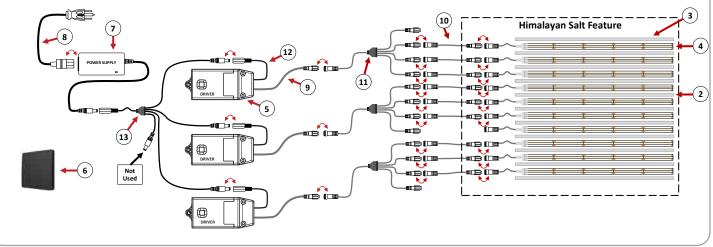
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Refer to your order for your Salt Feature Size

36" x 48" Large Salt Feature





																`
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	Salt Brick (not pictured)	4' Mounting Channel	4' End Cap Channel	4' White LED Strip	Driver	Dimming Remote	160W Power Supply	AC Power Cable (for power supply)	2-Pin Pigtail	30' Light Cable	2-Pin Splitter Cable	DC Pigtail	4-Way DC Barrel Splitter	DC Barrel Adapter	LED Mounting Clip (not pictured)	LED Cap (not pictured)
Quantity	72 (+6 extra)	11	2	12	3	1	1	1	3	12	3	3	1	1	36	9
Part Number	127839	128035	128142	BP031178	BP031199	BP031198	BP031145	BP031132	BP031073	BP031077	BP031075	BP031143	BP031138	DCPLUG- R&BF- P1M	BP031188	BP031185

