

Installation / Operation Manual

SoHo-w Hydronic Fan-Powered Linear Terminal (Low Profile Heating / Cooling)

Tools Required

1. Power Screwdriver
 - Phillips #3 Bit - floor panel screws
2. Standard Screwdriver
 - Phillips Head - manual adjustment of threaded leveling legs (if included)
3. Panel Lifter (Suction Cups) - remove floor panels
4. Jigsaw - cut floor panels (if required)
5. Carpet Knife - trim carpet tile / floor covering (if required)
6. Voltmeter - confirm power status



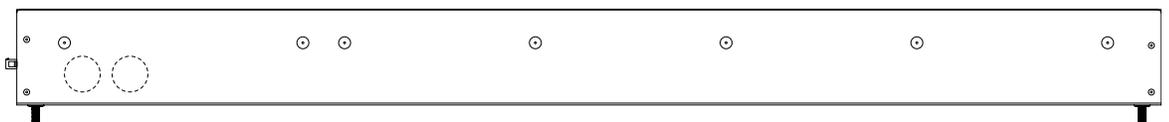
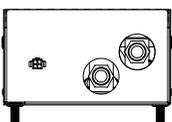
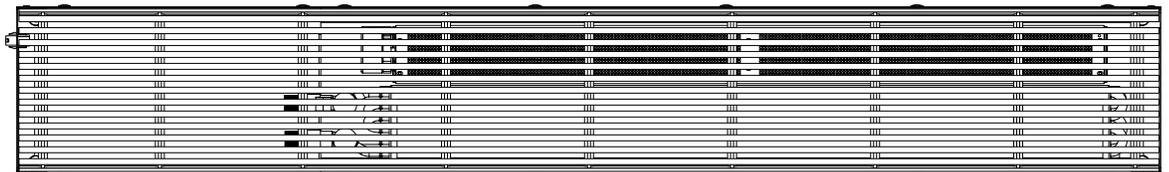
IMPORTANT: It is HIGHLY RECOMMENDED by the manufacturer that each zone be checked for faulty or improper wiring DURING INSTALLATION. Each zone should be tested thoroughly for full connectivity before proceeding with installation of the next zone. The manufacturer cannot be responsible for any improper installation as a result of failure to follow this procedure as recommended.

Materials Required

1. SoHo Hydronic Fan-Powered Linear Trough
2. Plug & Play Control Cable (PAP-1)
3. Line Power Connection (by others)
4. Piping Connections (by others)

Preparation

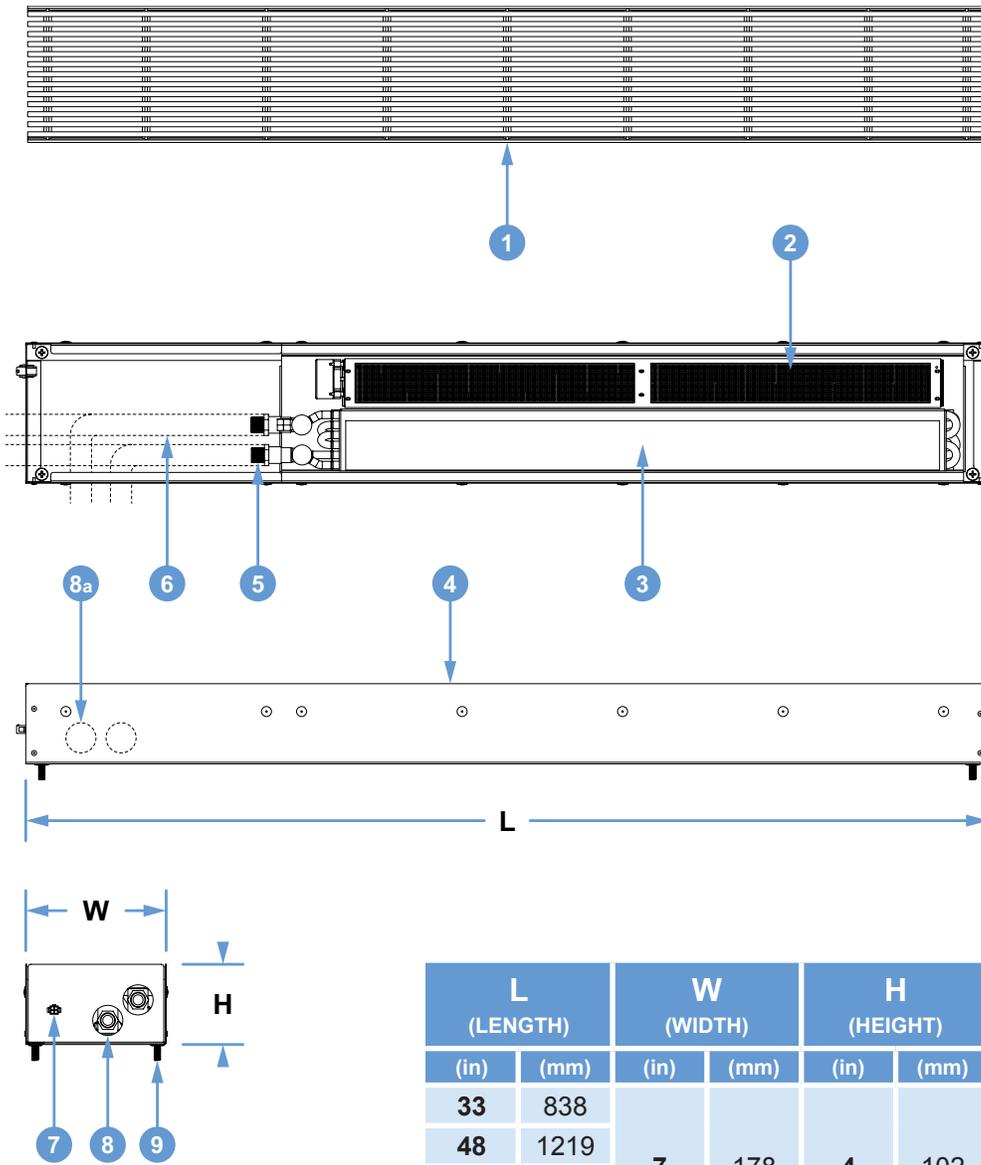
1. Verify that the SoHo is the correct model, unit count and location(s) per scheduled placement.
2. Remove the floor covering / floor panels at the desired location(s) (if installed).
3. Verify that all adjacent floor panels are properly installed.



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Unit Detail



1. Linear grille (optional extruded aluminum or stainless steel; specify on order)
2. 24 VDC ECM cross-flow fans with finger guards
3. Hydronic heating fin pack
4. 20 guage (1mm) galvanized steel casing
5. 1/2" NPT (15mm) supply / return connections
6. Piping connections (by others)
7. Molex PAP power & control cable access
8. Piping connection access
- 8a. Alternate piping connection access (specify on order)
9. Threaded leveling legs (optional; specify on order)

L (LENGTH)		W (WIDTH)		H (HEIGHT)	
(in)	(mm)	(in)	(mm)	(in)	(mm)
33	838	7	178	4	102
48	1219				
62	1575				
78	1981				
ALL DIMENSIONS NOMINAL ± 0.1" (2.5mm)					

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Installation

(Prior to Floor Installation)

1. Trim adjacent floor tiles around installation location as required, based on outer dimension of SoHo trough housing.
 - Outer Dimension + 0.25" (6mm)**
2. Reinstall floor tiles around SoHo installation opening.
3. Level SoHo unit, based on trough configuration.
 - Flanged Unit:** Lower SoHo into opening, until flanges rest on top of adjacent floor panels.
 - Flangeless Unit:** Using a manual Phillips head screwdriver, adjust threaded leveling legs to level unit to match finish floor height. Position SoHo on sub-floor beneath installation opening.
4. Connect water valve (provided by others).
 - EXTREME CAUTION: Use a heat sink when soldering water valve, to prevent compromising joints that are already soldered inside trough.**
5. Connect hydronic coil to building piping system, per local code requirements. Standard supply/return connections are 1"Ø (25mm); size may vary based on project specifications.

If drain pan is NOT included, skip to Step 7.

6. Connect drain pipe to drainage system. Standard drainage connection is 3/4"Ø (19mm); size may vary based on project specifications.
7. Connect SoHo to designated thermostatic control zone, using Plug & Play Cable connected to molex input located in control housing (access through opening on end of trough).
8. Connect SoHo to building power, per local code requirements.
 - Line / Neutral to power connector terminal block
 - Ground to ground lug
9. Using voltmeter, check SoHo power status and verify fan operation.

Installation

(After Floor Installation)

10. Verify that carpet is installed over SoHo trough mounting flanges (flanged unit only).
11. Install linear grille.

FOR DIRECTIONAL GRILLES ONLY:

Locate positioning hole drilled on ONE SIDE of grille frame (FIGURE 1). Position grille so that this hole faces into room, away from perimeter.

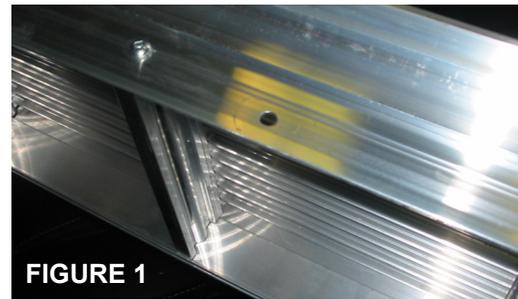


FIGURE 1

Operation

Once installed, the SoHo requires no direct input or adjustment for proper operation.

Maintenance

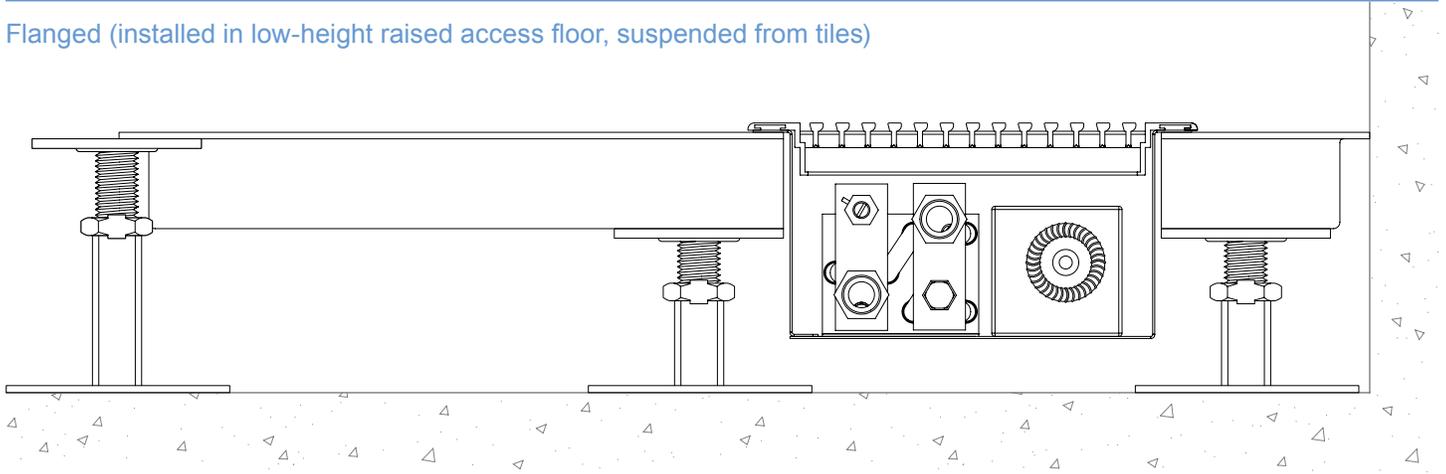
Once installed, the SoHo requires no regular maintenance for proper operation.

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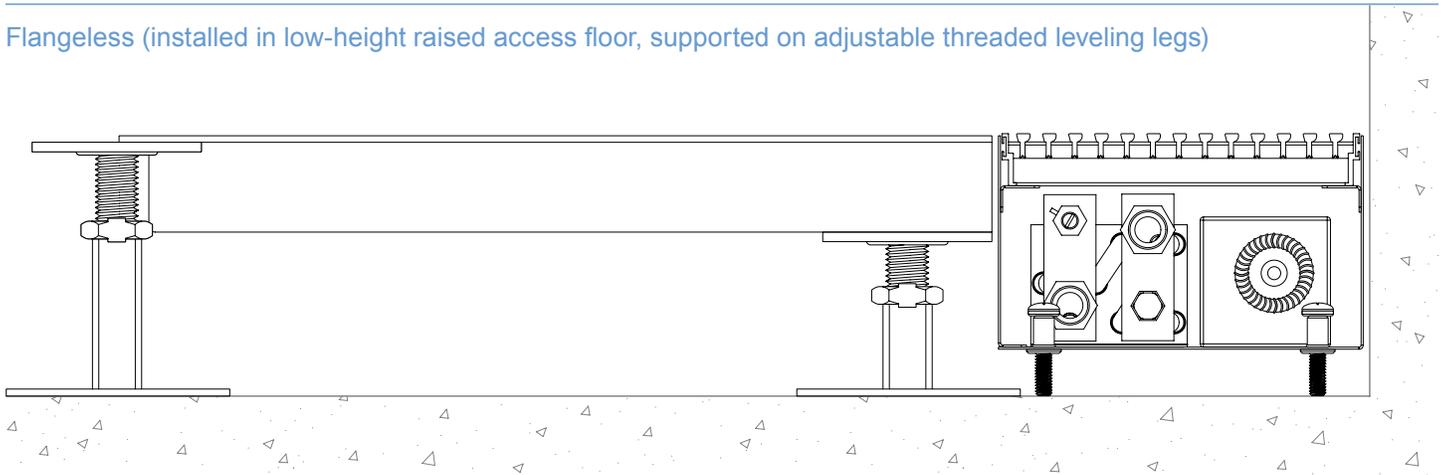
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Installation Details

Flanged (installed in low-height raised access floor, suspended from tiles)



Flangeless (installed in low-height raised access floor, supported on adjustable threaded leveling legs)

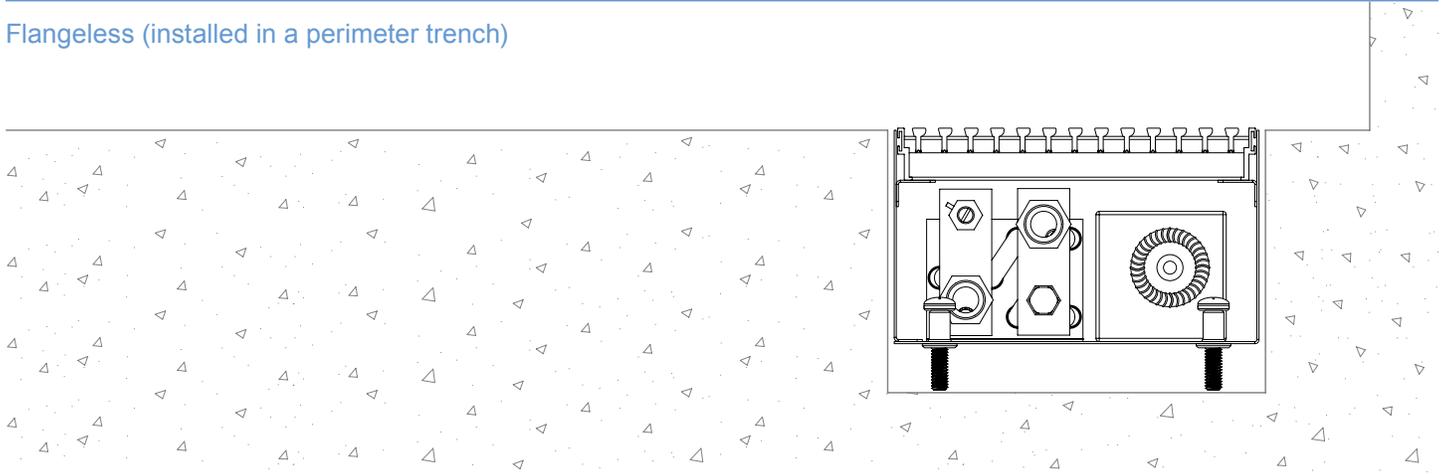


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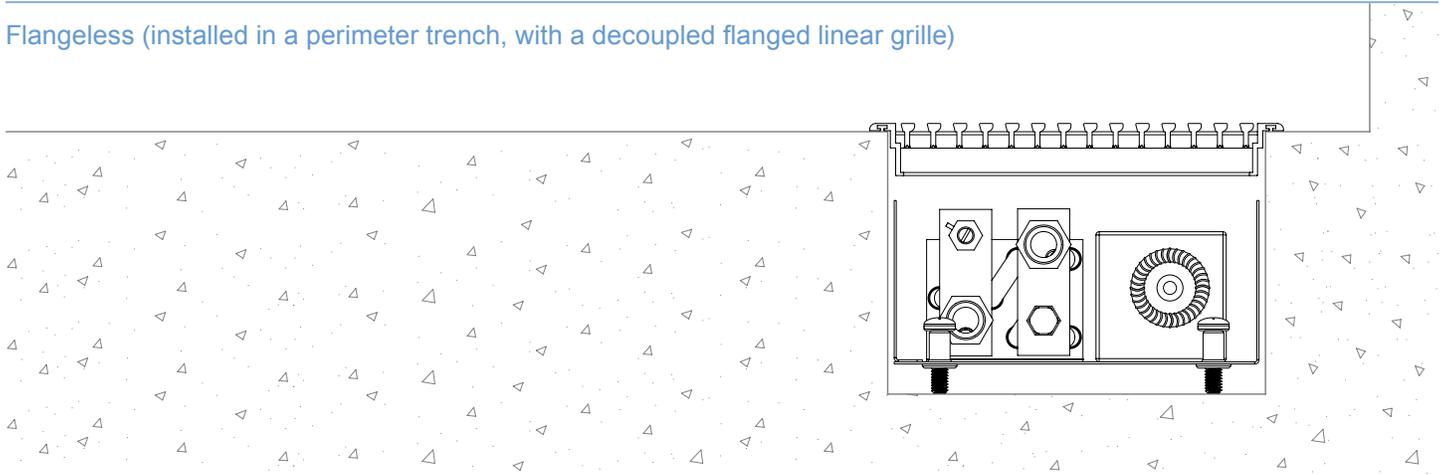
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Installation Details (continued)

Flangeless (installed in a perimeter trench)



Flangeless (installed in a perimeter trench, with a decoupled flanged linear grille)



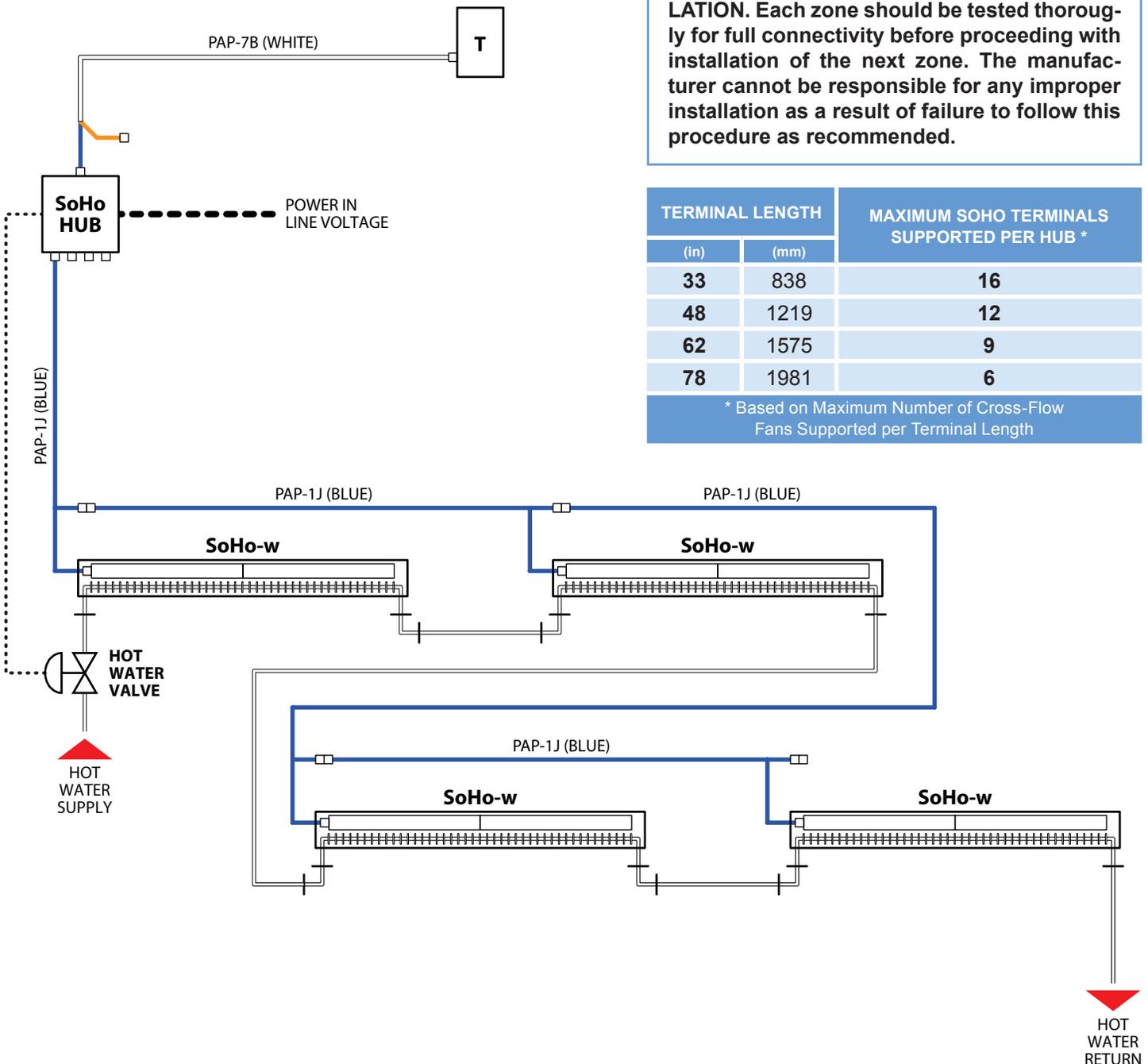
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Example Zone



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TERMINAL LENGTH		MAXIMUM SOHO TERMINALS SUPPORTED PER HUB *
(in)	(mm)	
33	838	16
48	1219	12
62	1575	9
78	1981	6

* Based on Maximum Number of Cross-Flow Fans Supported per Terminal Length