

## Specification Sheet

### SoHo-e Electric Fan-Powered Linear Terminal (Low Profile Heating)

#### Description

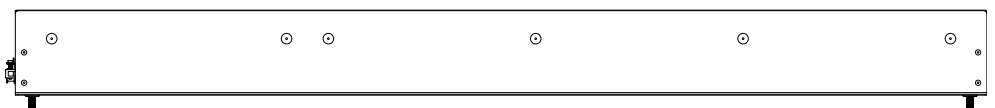
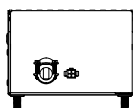
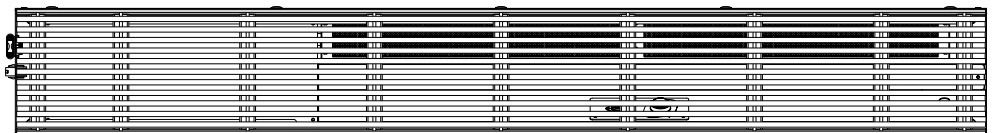
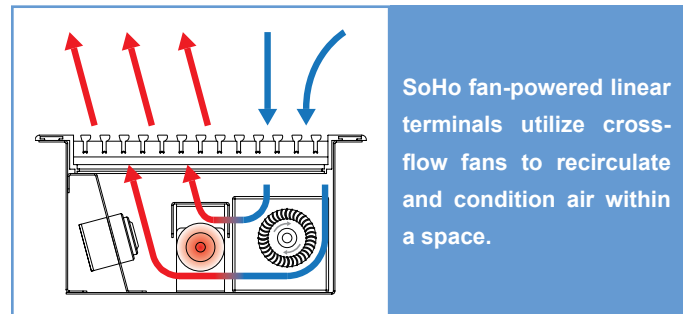
**SoHo-e Electric Fan-Powered Linear Terminal** is designed to create an efficient and simple solution to meet perimeter heating needs, in a variety of residential and commercial applications. The unit is ETL listed, fully certified to UL standards.

The low profile terminal housing is 20 gauge (1mm) galvanized steel, pre-painted black. It is designed primarily for low-height raised access floor and perimeter trench installation. Multiple mounting options are available; the terminal can be suspended from raised access floor tiles via support flanges, or it can be set directly on a floor (or subfloor) on threaded adjustable leveling legs, which provide up to 1" (25mm) of height adjustment.

The sheathed-type electric heating element is available as 0.5–2.0kW standard (dependant on unit length), with additional custom sizes available (specify on order). A single-point electrical power connection and unit-mounted on/off control switch are included.

Air flow is provided by 24VDC variable speed ECM cross-flow fans. Fan sizes and configurations are based on the length of the terminal / heater. Electrical supply can be 24VAC Plug & Play or 120/208/240/277V.

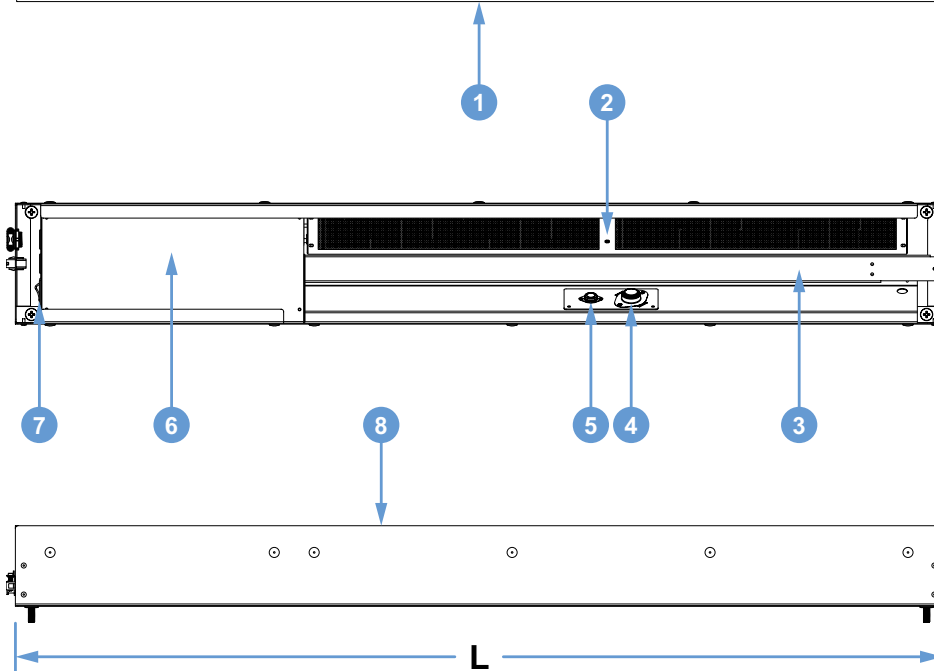
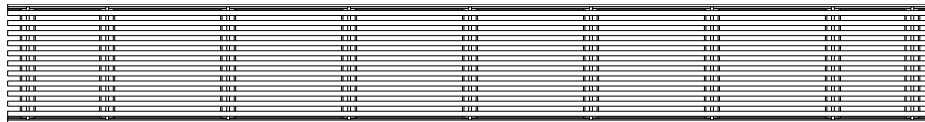
The linear grille is available as extruded aluminum or stainless steel, in a variety of sizes and configurations. Ten (10) standard colors are available; custom colors and finishes can be provided to match architectural design (specify on order).



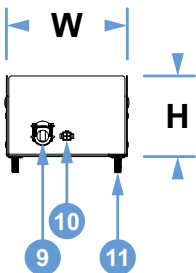
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#### Unit Detail



1. Linear grille (optional extruded aluminum or stainless steel; specify on order)
2. 24 VDC ECM cross-flow fans with finger guards
3. Sheathed electric heating element (0.5–2.0kW)
4. Thermal cutout
5. Thermistor
6. 20 guage (1mm) galvanized steel casing, pre-painted black
7. Controls housing
8. On/off control switch
9. Line power connection clamp
10. Plug & play control cable molex connection
11. Adjustable threaded leveling legs (optional; specify on order)



L LENGTH *		W WIDTH		H HEIGHT	
in	mm	in	mm	in	mm
31	787	6	152	4	102
46	1168				
61	1549				
77	1956				
ALL DIMENSIONS NOMINAL ± 0.1" (2.5mm)					

\* For optional integrated thermostat, add an additional 3" (76mm) to each overall length.

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#### Features

- 20 Gauge (1mm) galvanized steel terminal housing, pre-painted flat black
- Multiple grille configurations available
  - Extruded aluminum / stainless steel (304 / 316 Series)
  - Ten (10) standard colors; additional colors and finishes available at architect's choice (specify on order)
- Optional threaded leveling legs for unit height adjustment
- ETL listed, fully certified to UL standards
- Sheathed electric heating element (0.5–2.0kW standard, based on unit length; other sizes available on order)
- Single-point electrical power connection and unit-mounted on/off control switch
- 24VDC variable speed ECM cross-flow fans (sizes and configurations based on terminal / heater length)
- Modular Plug & Play control connection
- Optional integrated thermostat

#### Electrical Performance

1. 120V (120/1/60) | 277V (277/1/60)
  - Single Phase units require 3 conductors: Line / Neutral / Ground
2. 240V (240/1/60)
  - Single Phase units require 3 conductors: Line1 / Line2 / Ground
3. 208V (208/1/60)
  - Single Phase 208V requires 4 conductors: Line1 / Line2 / Neutral / Ground

Additional Voltages / 50Hz capabilities available on request.

PRODUCT DESCRIPTION		PRIMARY VOLTAGE / PH		MAXIMUM HEAT OUTPUT		HEATER AMPS	MOTOR VOLTAGE	MCA	MOP	
				UNIT LENGTH	KW					
SoHo-e	12	005	120	1	31" (767mm)	0.5	4.2	24 VDC	5.2	10
		010	120	1	46" (1168mm)	1.0	8.3	24 VDC	10.4	15
		015	120	1	61" (1549mm)	1.5	12.5	24 VDC	15.6	20
		020	120	1	77" (1956mm)	2.0	16.7	24 VDC	20.8	25
	20	005	208	1	31" (767mm)	0.5	2.4	24 VDC	3.0	5
		010	208	1	46" (1168mm)	1.0	4.8	24 VDC	6.0	10
		015	208	1	61" (1549mm)	1.5	7.2	24 VDC	9.0	10
		020	208	1	77" (1956mm)	2.0	9.6	24 VDC	12.0	15
	24	005	240	1	31" (767mm)	0.5	2.1	24 VDC	2.6	5
		010	240	1	46" (1168mm)	1.0	4.2	24 VDC	5.2	10
		015	240	1	61" (1549mm)	1.5	6.3	24 VDC	7.8	10
		020	240	1	77" (1956mm)	2.0	8.3	24 VDC	10.4	15
	27	005	277	1	31" (767mm)	0.5	1.8	24 VDC	2.3	5
		010	277	1	46" (1168mm)	1.0	3.6	24 VDC	4.5	5
		015	277	1	61" (1549mm)	1.5	5.4	24 VDC	6.8	10
		020	277	1	77" (1956mm)	2.0	7.2	24 VDC	9.0	10

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#### Sequence of Operation

MODE	HEATING DEMAND	FAN SPEED	ELECTRIC HEAT MODULATION
HEAT DEADBAND	0%	OFF	OFF
HEATING STAGE 1	20%	ON 50% <sup>1</sup>	ON 50%
HEATING STAGE 2	50%	ON 75% <sup>1</sup>	ON 75%
HEATING STAGE 3	70%	ON MAX% <sup>2</sup>	ON 100%

#### Notes

- Fan Speed Max in Heating Mode (2) set by Adj2 Pot (R8 on right)  
Range: 20% (CCW) to 100% (CW) of Full EC Fan Speed  
Factory set to Job Specified Heating fan speed  
Incremental Speeds (1) are 50% and 75% of Max Speed
- Fan runs for at least 30 seconds after heat turns off and continues to run until heater has cooled down.

#### Specifications

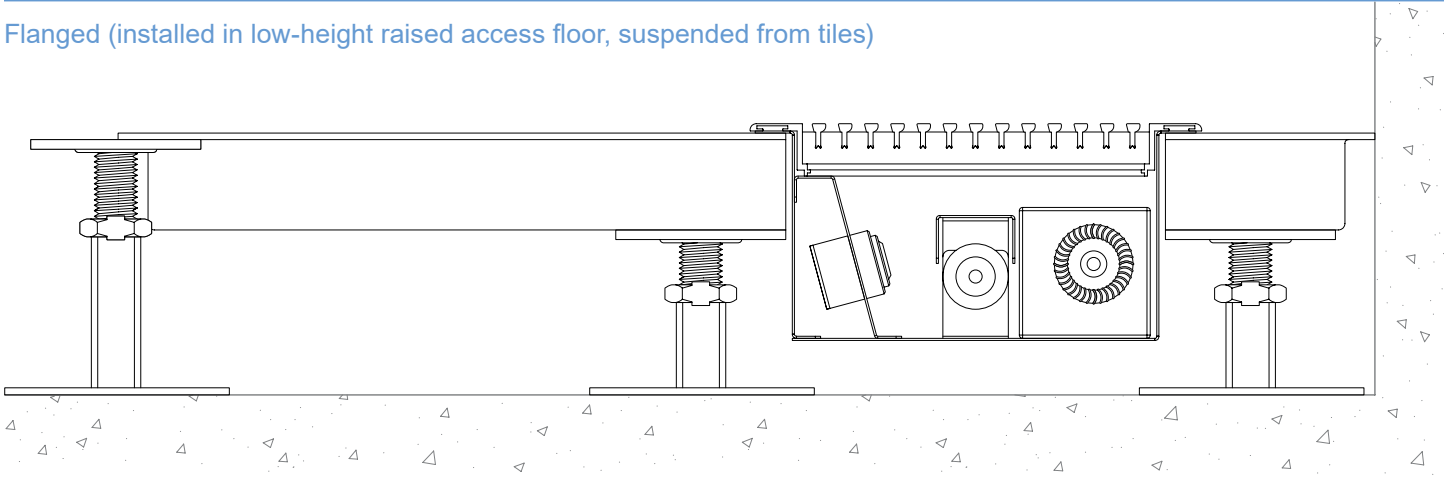
<b>Application:</b>	Low Profile Fan-Powered Heating   Raised Access Floors / Recessed Perimeter Trenches
<b>Terminal Construction:</b>	Galvanized Steel   20 Gauge (1mm)   Pre-Painted Black
<b>Terminal Dimensions:</b> LxWxH (Nominal)	31" x 6" x 4" (767mm x 152mm x 102mm) 46" x 6" x 4" (1168mm x 152mm x 102mm) 61" x 6" x 4" (1549mm x 152mm x 102mm) 77" x 6" x 4" (1956mm x 152mm x 102mm)
<b>Grille Configuration:</b>	Extruded Aluminum   304 / 316 Series Stainless Steel (Specify On Order)
<b>Air Flow Capacity:</b> (Nominal Maximum)	One (1) Fan   60 cfm (102 m <sup>3</sup> /hr)   Minimum 31"L (767mm) Unit Two (2) Fans   125 cfm (213 m <sup>3</sup> /hr)   Minimum 46"L (1168mm) Unit Three (3) Fans   185 cfm (315 m <sup>3</sup> /hr)   Minimum 61"L (1549mm) Unit Four (4) Fans   250 cfm (425 m <sup>3</sup> /hr)   Minimum 77"L (1956mm) Unit
<b>Heating Capacity:</b> (Nominal Maximum)	0.5kW   Minimum 31"L (767mm) Unit 1.0kW   Minimum 46"L (1168mm) Unit 1.5kW   Minimum 61"L (1549mm) Unit 2.0kW   Minimum 77"L (1956mm) Unit

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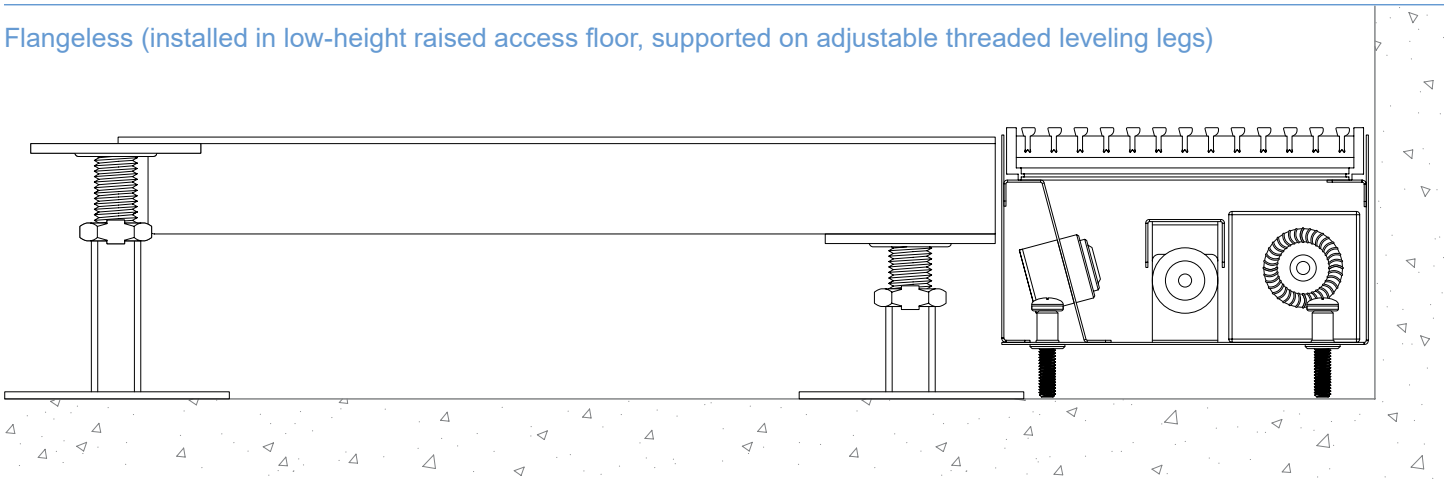
### **SoHo-e** Electric Fan-Powered Linear Terminal (Low Profile Heating)

#### Installation Options

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)

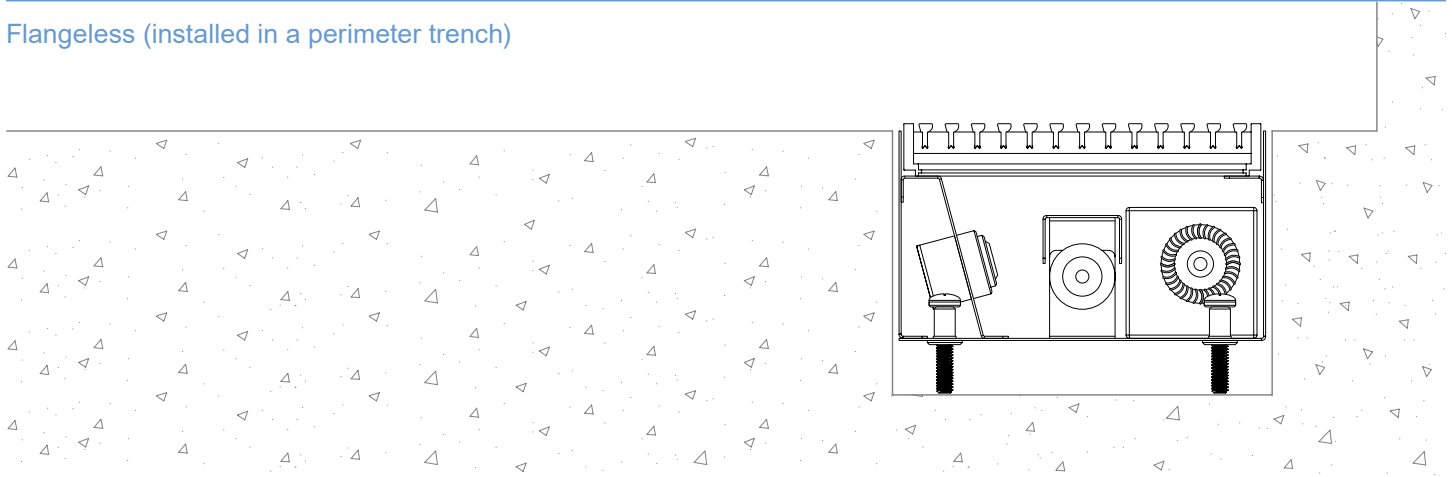


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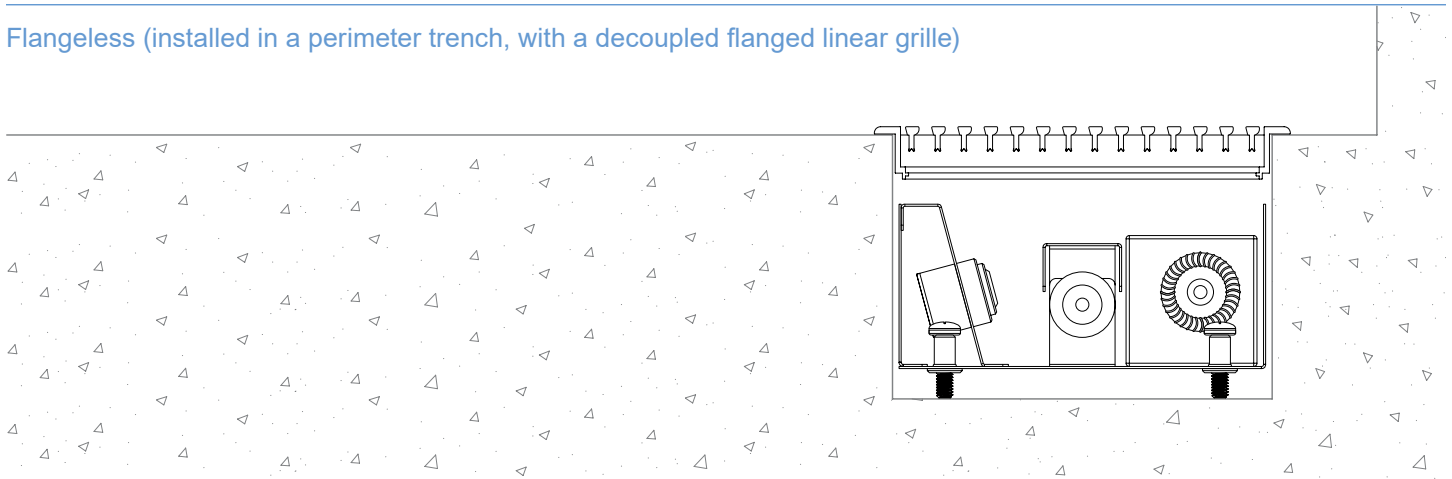
### SoHo-e Electric Fan-Powered Linear Terminal (Low Profile Heating)

#### Installation Options (continued)

##### Flangeless (installed in a perimeter trench)



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

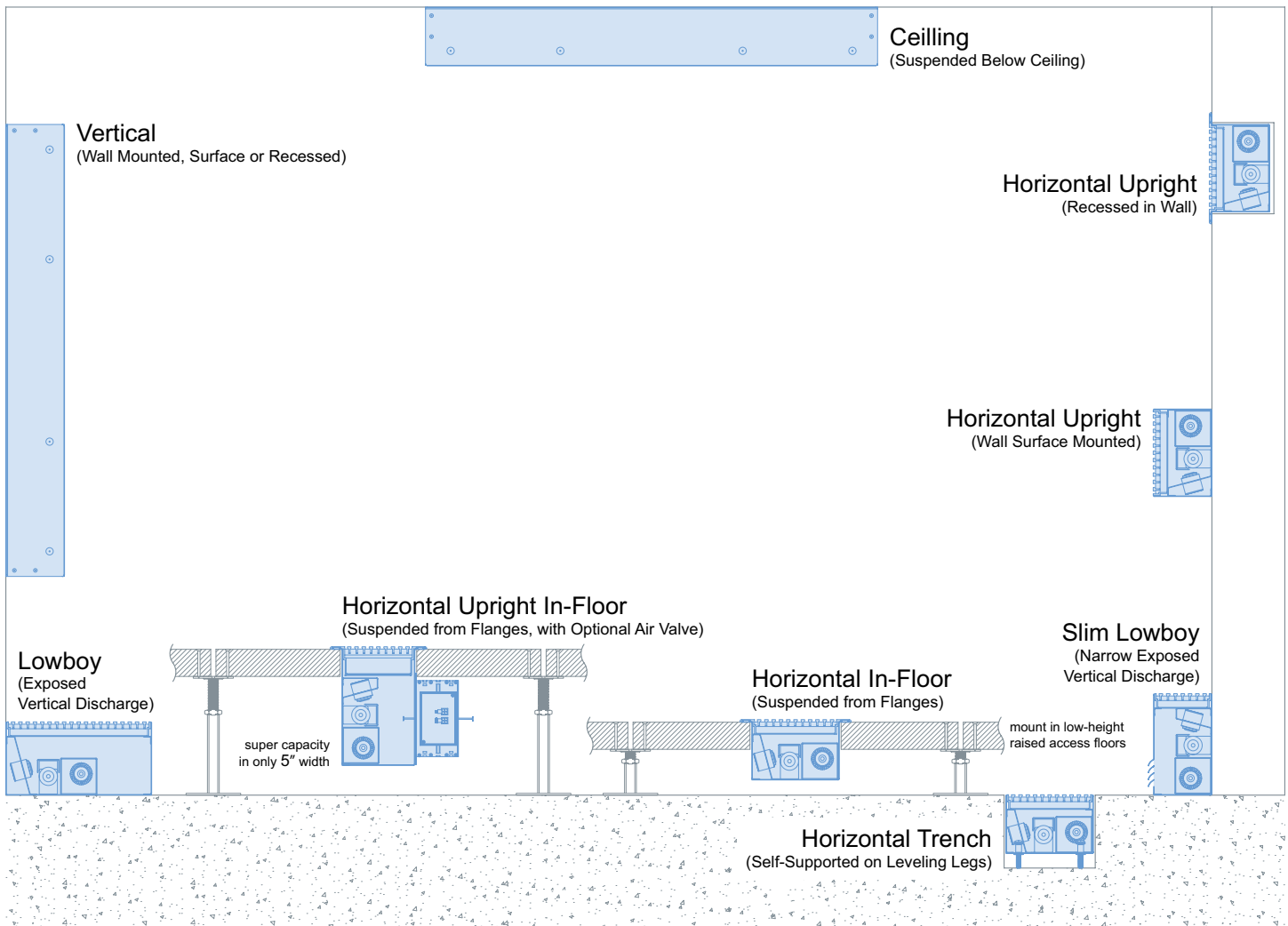


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#### Installation Options (continued)

#### Example Mounting Options

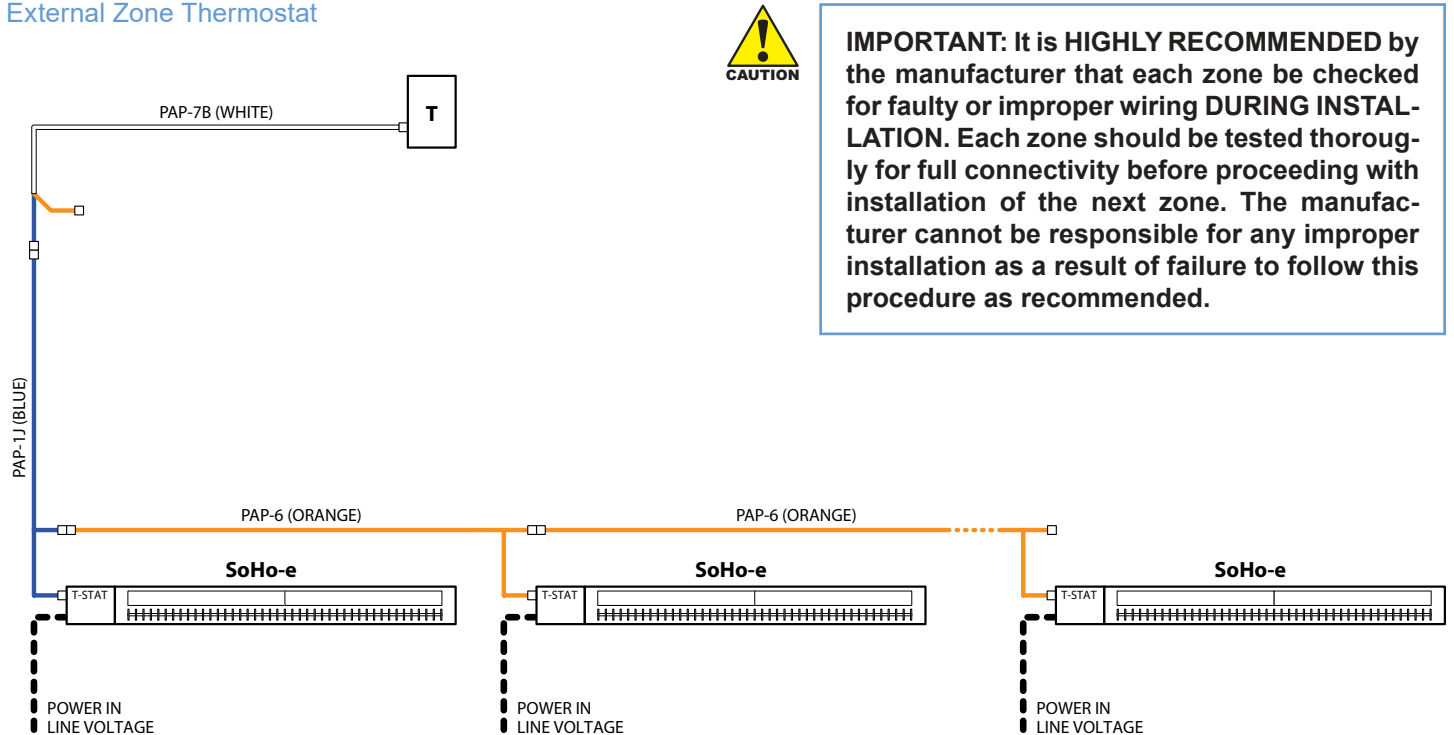


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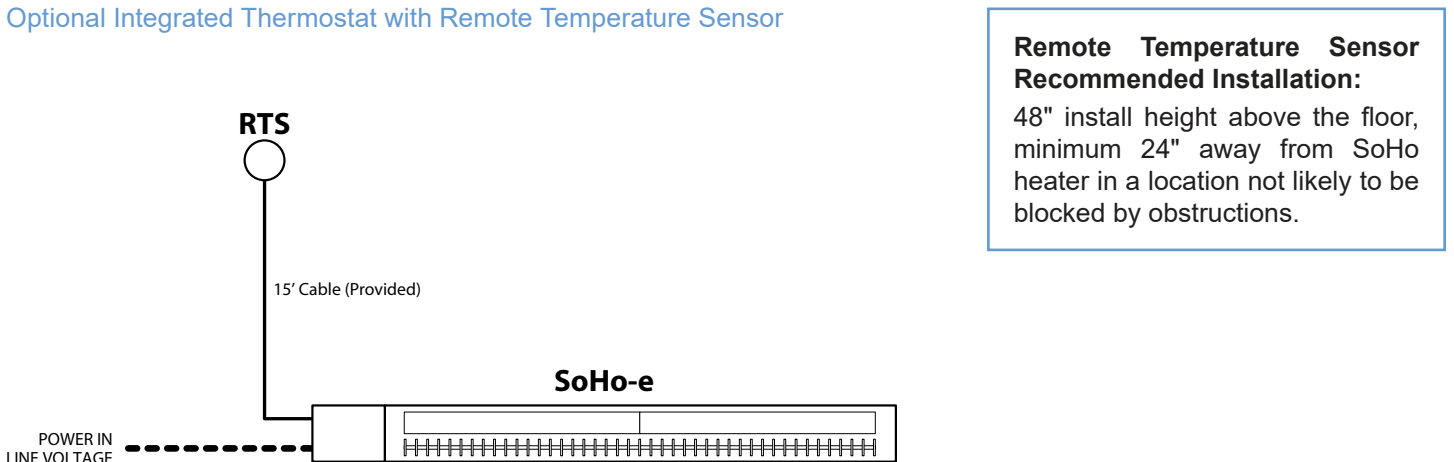
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#### Example Zones

##### External Zone Thermostat



##### Optional Integrated Thermostat with Remote Temperature Sensor





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