

Specification Sheet

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

Description

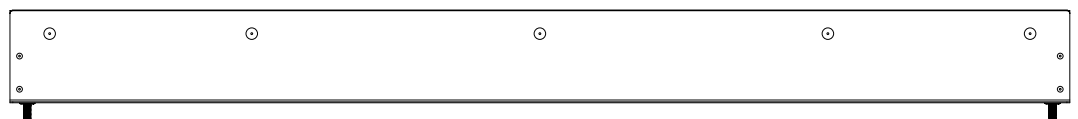
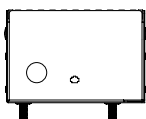
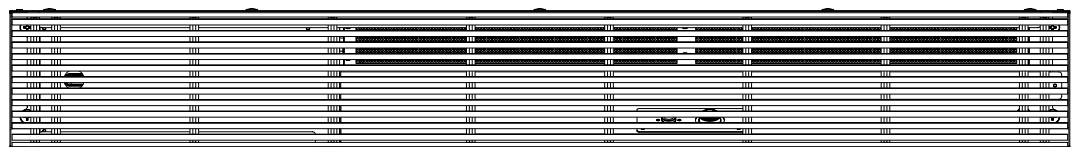
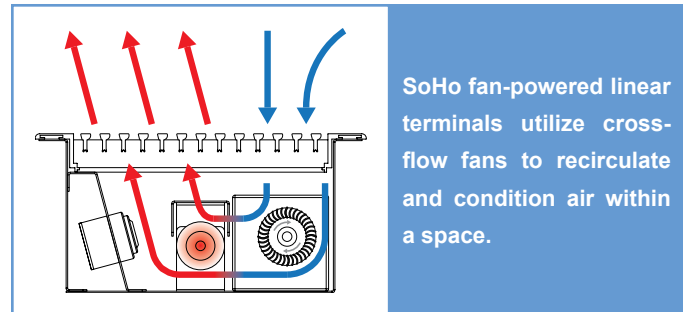
SoHo Electric Fan-Powered Linear Terminal is designed to create an efficient and simple solution to meet perimeter heating needs, in a variety of residential and commercial applications. The unit is ETL listed, fully certified to UL standards.

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 trough 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.

The sheathed-type electric heater 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 disconnect 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.

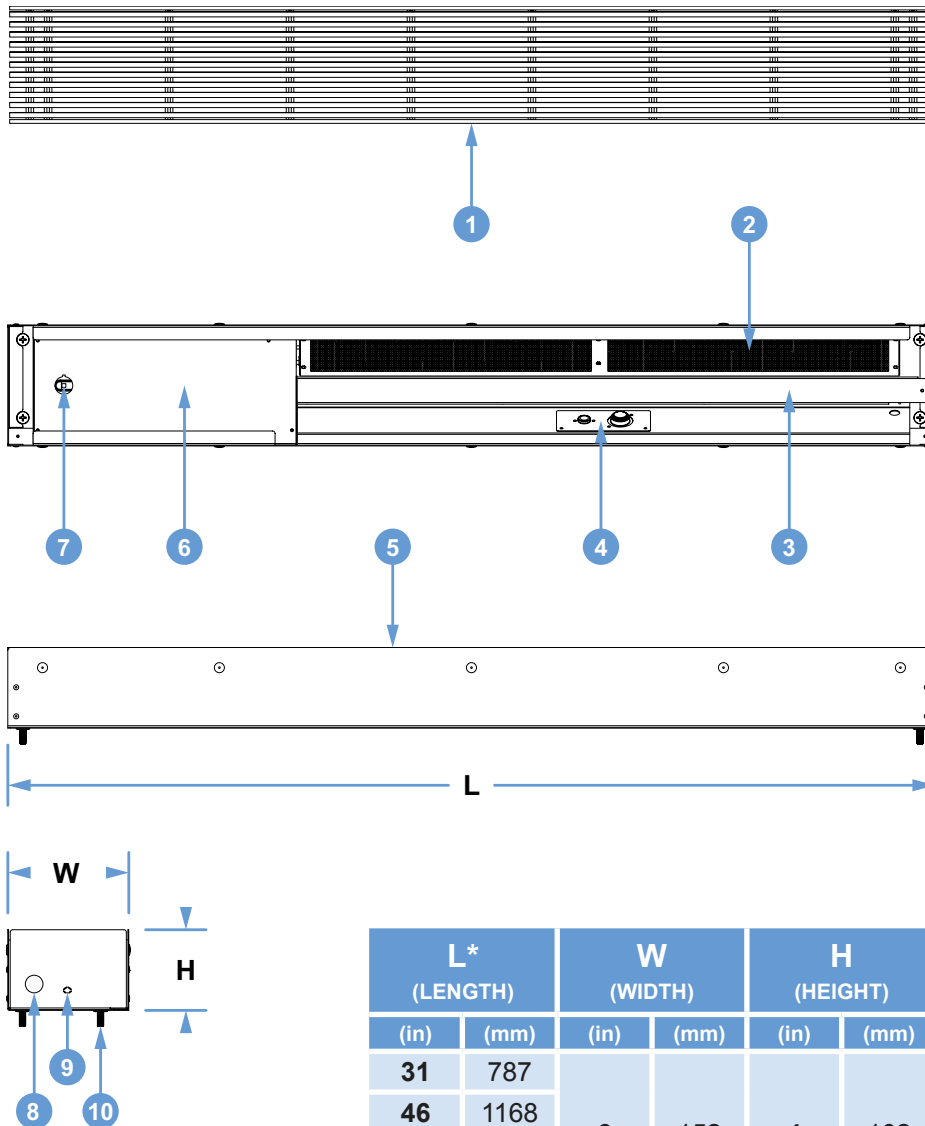
The linear grille is available as extruded aluminum or stainless steel, in a variety of sizes and configurations. Ten (10) standard colors are available; custom colors and finishes can be provided to match architectural design (specify on order).



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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. Electric heating coil
4. Thermistor / thermal cutout
5. 20 guage (1mm) galvanized steel casing
6. Controls housing
7. Disconnect switch
8. Power connection access
9. Molex PAP control cable access
10. 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 nominal 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
- Additional grille colors available at architect's choice (specify on order)
- Optional threaded leveling legs for unit height adjustment
- Modular Plug & Play control connections
- ETL listed, fully certified to UL standards
- Sheathed electric heater (0.5–2.0KW standard, based on unit length; other sizes available on order)
- Single-point electrical power connection and unit-mounted disconnect
- 24VDC variable speed ECM cross-flow fans (sizes and configurations based on terminal / heater length)
- 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% ¹	ON 50%
HEATING STAGE 2	50%	ON 75% ¹	ON 75%
HEATING STAGE 3	70%	ON MAX% ²	ON 100%

Notes

- Fan Speed Max in Heating Mode (2) set by Adj2 Pot (R4 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

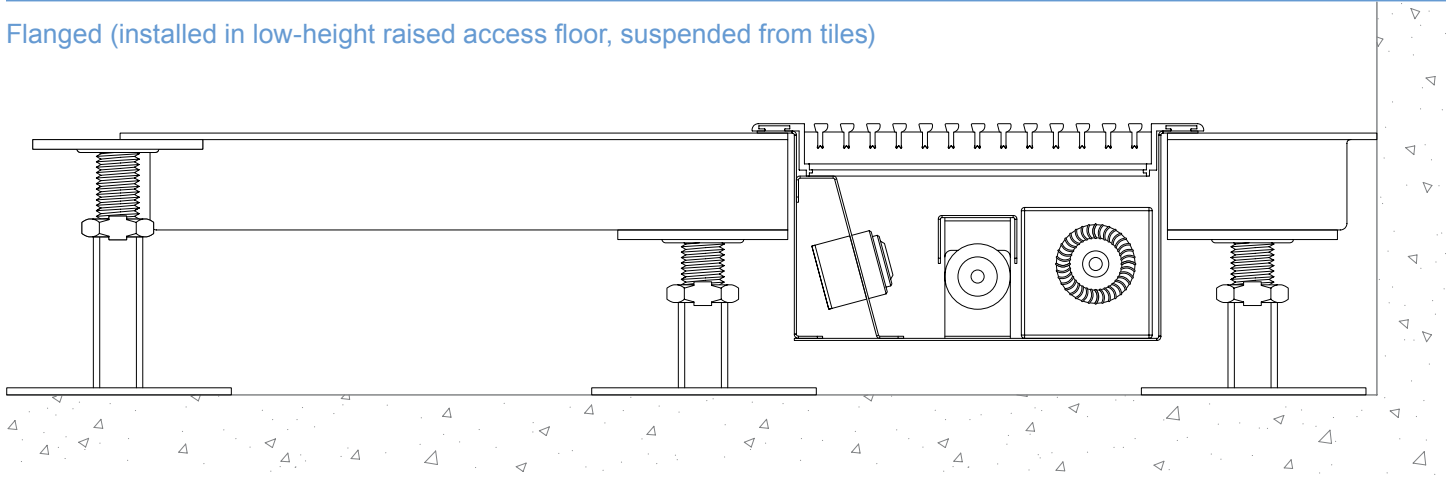
Application:	Underfloor Heating Raised Access Floors / Concrete Trenches
Terminal Construction:	Galvanized Steel 20 Gauge (1mm) Pre-Painted Black
Terminal Dimensions:	31" x 6" x 4" (767mm x 152mm x 102mm)
LxWxH (Nominal)	46" x 6" x 4" (1168mm x 152mm x 102mm)
	61" x 6" x 4" (1549mm x 152mm x 102mm)
	77" x 6" x 4" (1956mm x 152mm x 102mm)
Grille Rating:	Extruded Aluminum Conforms to NFPA 90a 800 lbs. (363 Kg) Load Strength
Air Flow Capacity:	One (1) Fan 62 cfm (105 m ³ /hr) Minimum 31"L (767mm) Unit
(Nominal Maximum)	Two (2) Fans 125 cfm (213 m ³ /hr) Minimum 46"L (1168mm) Unit
	Three (3) Fans 187 cfm (318 m ³ /hr) Minimum 61"L (1549mm) Unit
	Four (4) Fans 250 cfm (425 m ³ /hr) Minimum 77"L (1956mm) Unit
Heating Capacity:	0.5 kW Minimum 31"L (767mm) Unit
(Nominal Maximum)	1.0 kW Minimum 46"L (1168mm) Unit
	1.5 kW Minimum 61"L (1549mm) Unit
	2.0 kW Minimum 77"L (1956mm) Unit

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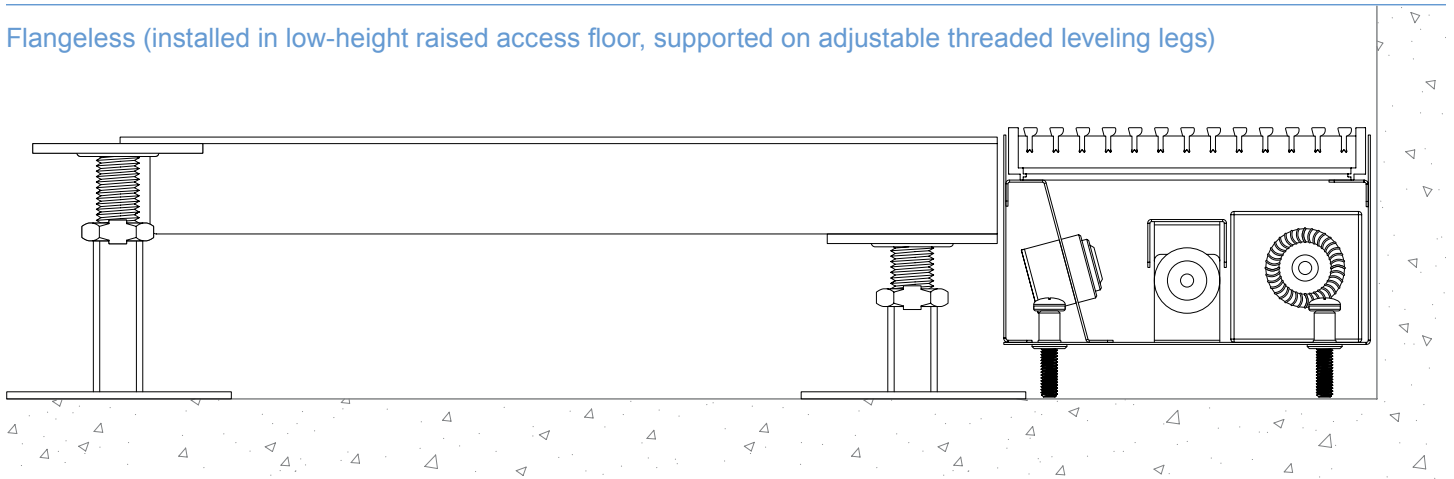
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Installation Options

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)

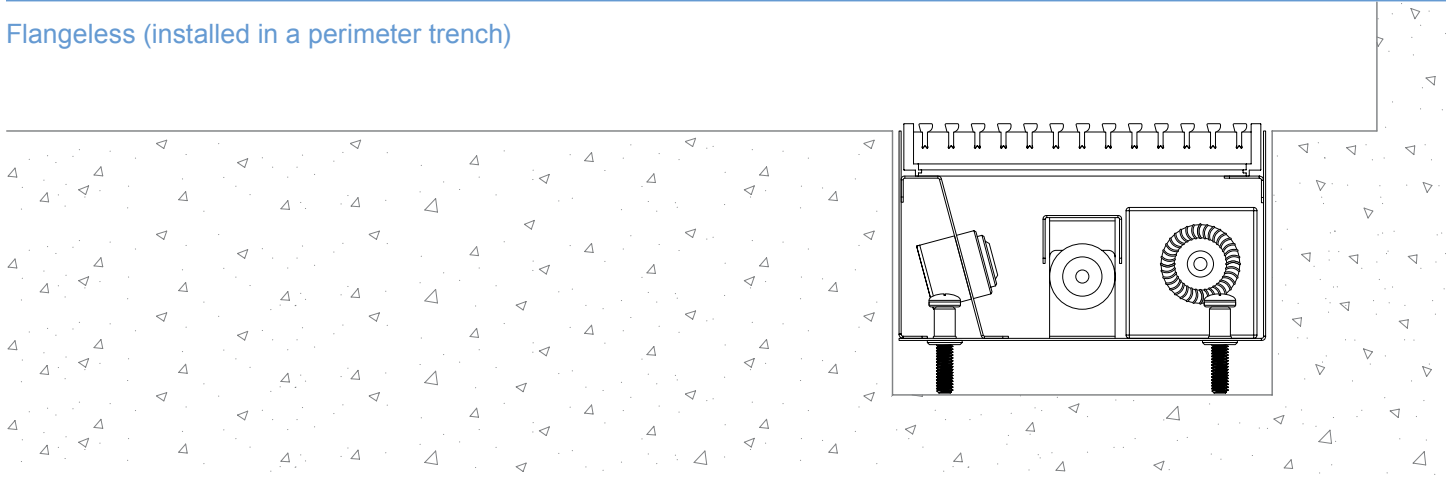


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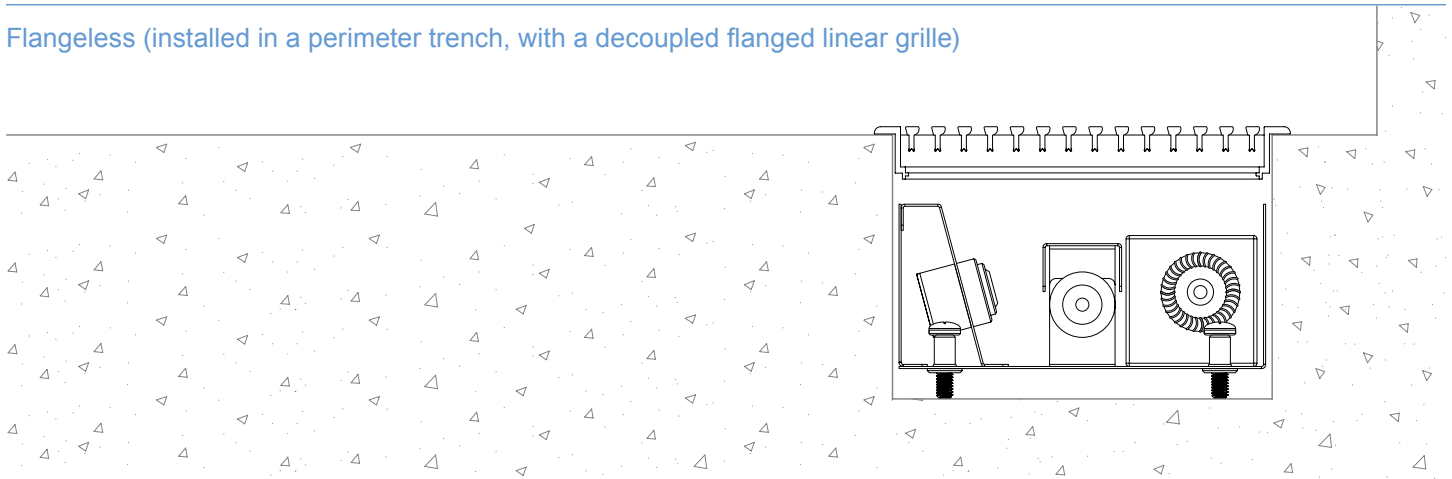
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Installation Options (continued)

Flangeless (installed in a perimeter trench)



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

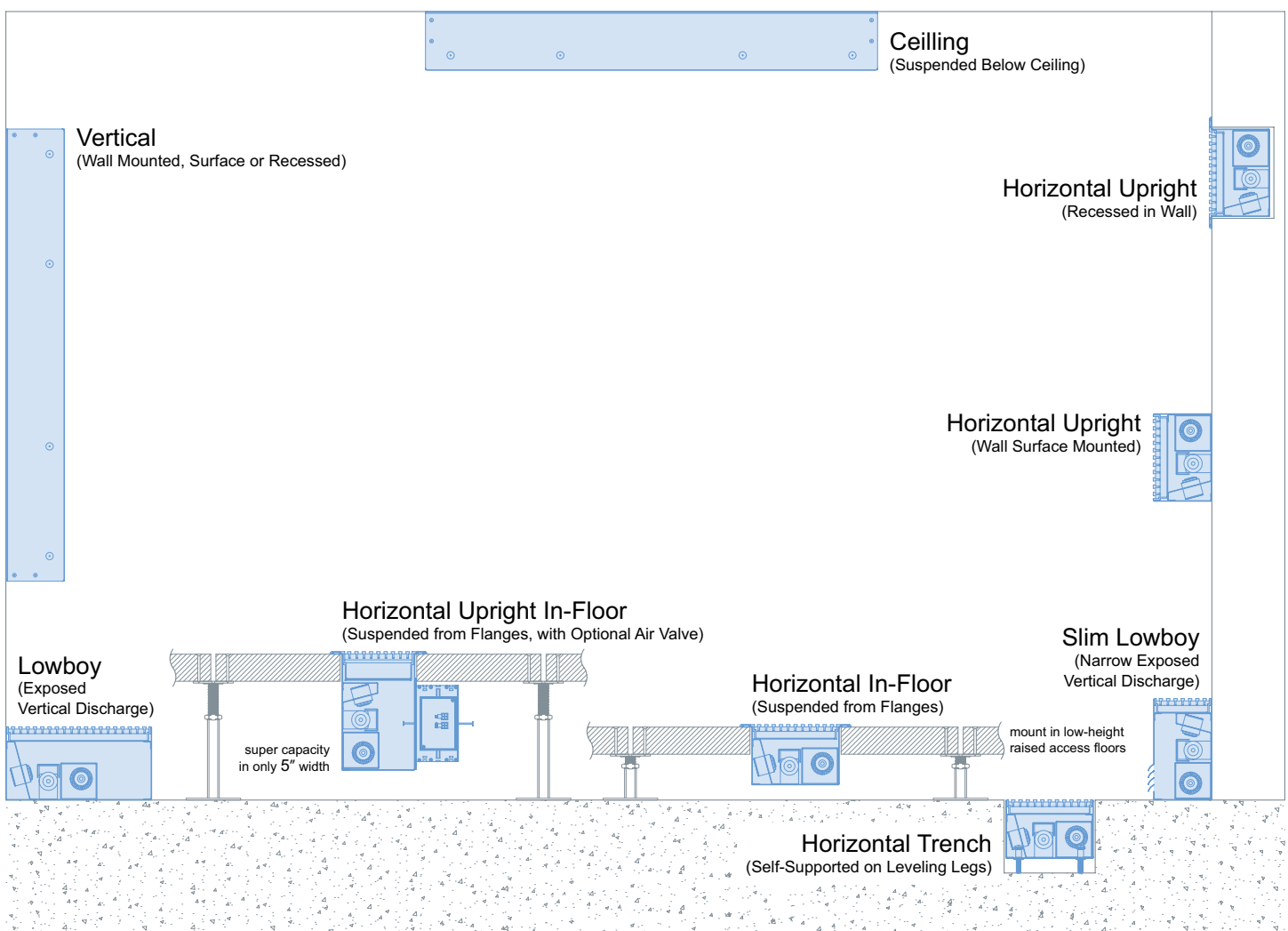


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Installation Options (continued)

Example Mounting Options

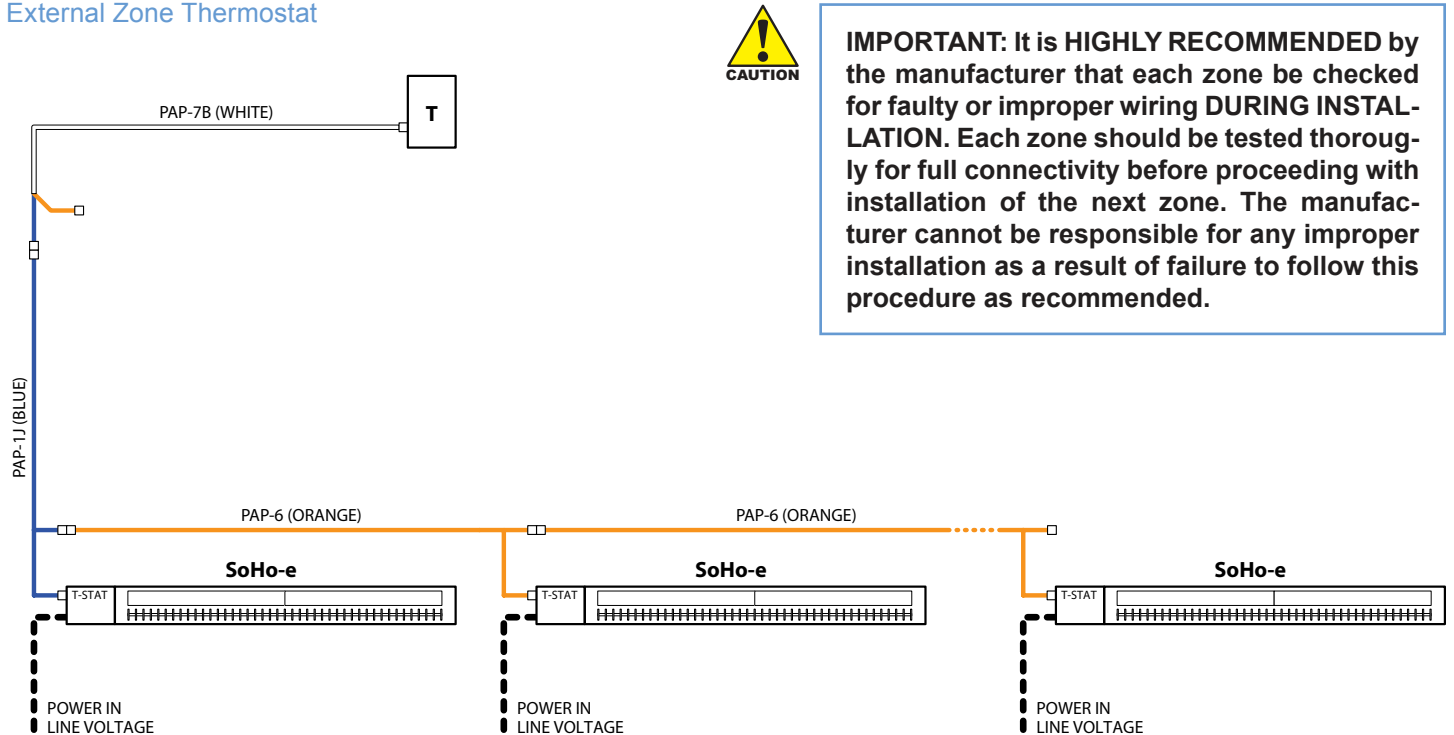


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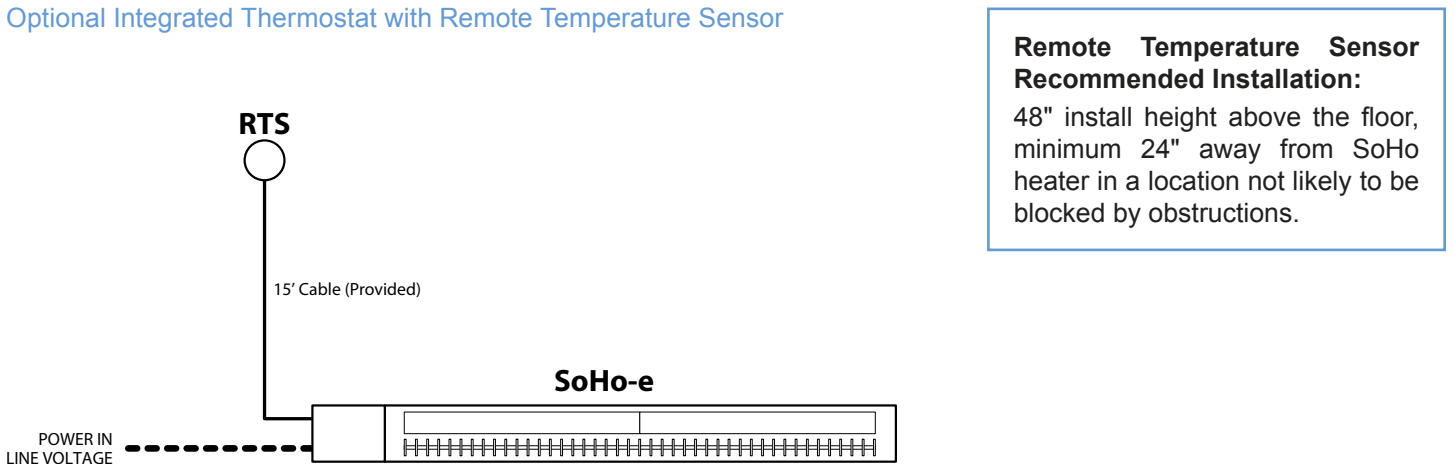
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Example Zones

External Zone Thermostat



Optional Integrated Thermostat with Remote Temperature Sensor



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