

## Specification Sheet

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

#### Description

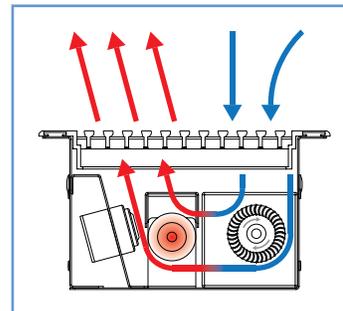
**SoHo-e Electric Fan-Powered Linear Terminal** is designed to create an efficient and simple solution to meet perimeter heating needs, in a variety of residential and commercial applications. The unit is ETL listed, fully certified to UL standards.

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 recessed perimeter trench installation. Multiple mounting options are available; the terminal can be suspended from adjacent finish floor surface via support flanges, or it can be set directly on a floor (or subfloor) on threaded leveling legs, which provide up to 1" (25mm) of manual height adjustment.

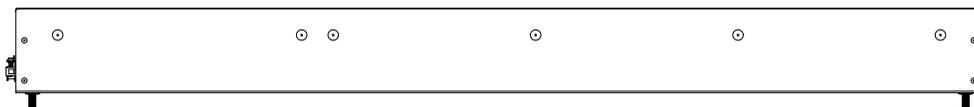
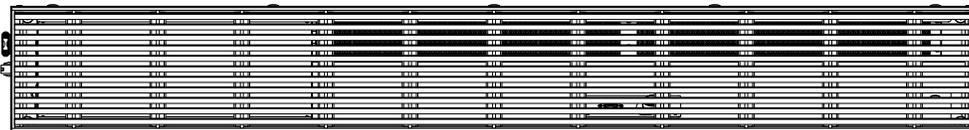
The sheathed-type electric heating element is available as 0.5–2.0kW, with additional custom capacities available (specify on order). Heat is actively circulated using air flow supplied by 24VDC variable speed ECM cross-flow fans. Maximum heat and air flow capacity is dependant on overall length of the terminal / heater.

Electrical supply is available as 24VAC plug and play or 120/208/240/277V, with a single-point power connection. The unit-mounted on/off control switch includes a circuit breaker for overcurrent protection. Control signal is received from an external zone thermostat controller via modular plug and play molex connection.

The linear grille is available as extruded aluminum or stainless steel, in a variety of sizes and configurations (specify on order).



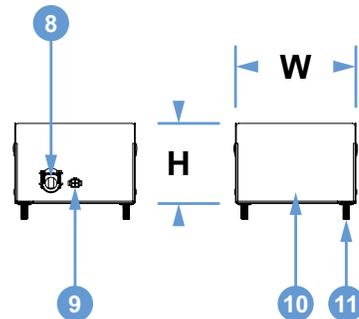
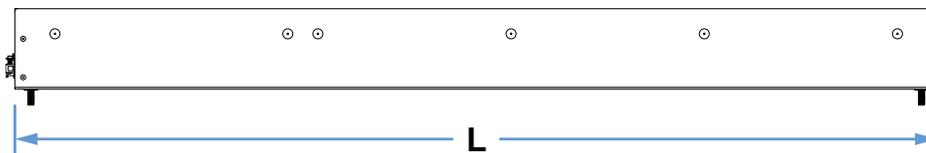
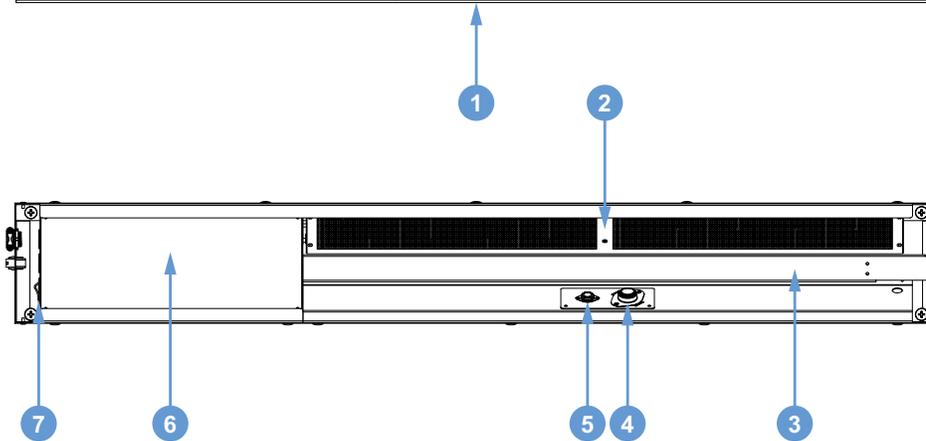
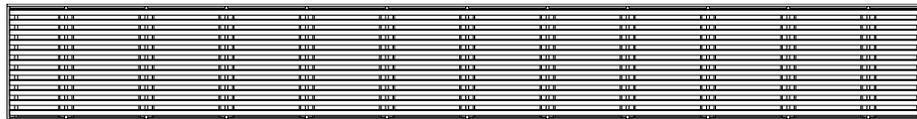
SoHo fan-powered linear terminals utilize cross-flow fans to recirculate and condition air within an occupied space.



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#### Unit Detail



1. Linear grille (multiple options for material, finish and flange configuration; specify on order)
2. 24VDC ECM cross-flow fans with finger guards
3. Sheathed electric heating element (0.5–2.0kW standard)
4. Thermal cutout
5. Thermistor
6. Controls housing
7. On/off control switch (circuit breaker)
8. Line power connection clamp
9. Plug and play control cable moxlex connection
10. 20 gauge (1mm) galvanized steel casing, pre-painted black
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 linear grille options available (specify on order)
  - Extruded aluminum / stainless steel (304 / 316 Series)
  - Flanged / flangeless configurations
  - Natural aluminum finish options or ten (10) standard powder-coated colors; additional colors and finishes available at architect's choice
- Optional threaded leveling legs for unit height adjustment
  - 1" (25mm) maximum manual height adjustment
- Sheathed electric heating element (0.5–2.0kW standard, based on unit length; other capacities available on order)
- Modular plug and play moxlex control connection
- Single-point electrical power connection
- Unit mounted on/off control switch with circuit breaker for overcurrent protection
- 24VDC variable speed ECM cross-flow fans (capacity and configuration based on terminal length and scheduled performance requirements)
- Optional integrated thermostat / remote temperature sensor (specify on order)
- ETL listed, fully certified in accordance with UL standards, including [UL 1995:2011 Ed.4]

### Electrical Performance

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

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

Additional Voltages / 50Hz capabilities available on request.

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

### 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

**Application:** Low Profile Fan-Powered Heating | Raised Access Floors / Recessed Perimeter 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)

**Air Flow Capacity:** One (1) Fan (1x Single Assembly) | 62 cfm (105 m<sup>3</sup>/hr) | Minimum 31"L (838mm) Unit  
**(Nominal Maximum)** Two (2) Fans (1x Dual Assembly) | 125 cfm (213 m<sup>3</sup>/hr) | Minimum 46"L (1219mm) Unit  
 Three (3) Fans (1x Triple Assembly) | 185 cfm (315 m<sup>3</sup>/hr) | Minimum 61"L (1575mm) Unit  
 Four (4) Fans (2x Dual Assembly) | 250 cfm (425 m<sup>3</sup>/hr) | Minimum 77"L (1981mm) Unit

**Heating Capacity:** 0.5kW | Minimum 31"L (767mm) Unit  
**(Nominal Maximum)** 1.0kW | Minimum 46"L (1168mm) Unit  
 1.5kW | Minimum 61"L (1549mm) Unit  
 2.0kW | Minimum 77"L (1956mm) Unit

**Grille Configuration:** Extruded Aluminum | Natural Anodized / Powder-Coated Finish  
 Fully Flanged / Partially Flanged / Fully Flangeless  
 Stainless Steel | 304 / 316 Series Finish  
 Fully Framed / Fully Frameless  
 Specify Grille Configuration Options On Order

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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 adjacent tiles)



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

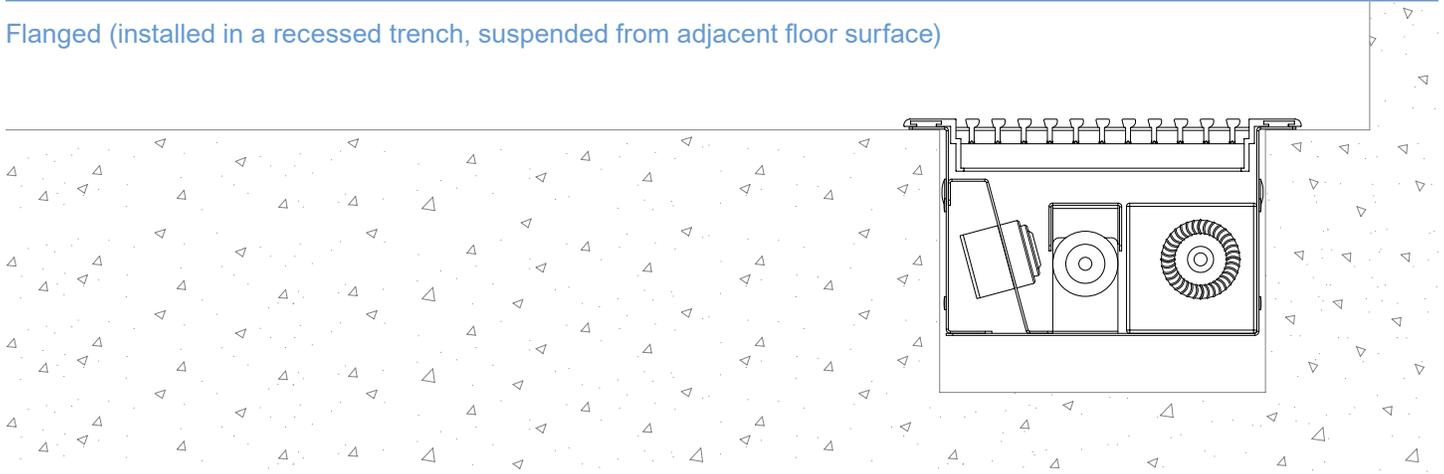


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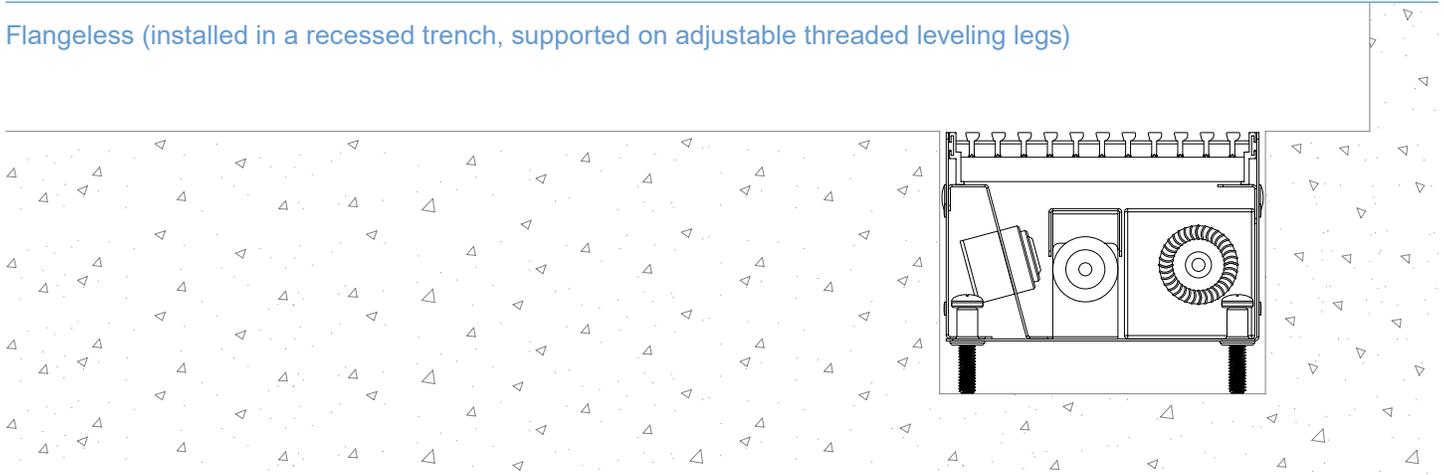
### **SoHo-e** Electric Fan-Powered Linear Terminal (Low Profile Heating)

#### Installation Options (continued)

Flanged (installed in a recessed trench, suspended from adjacent floor surface)



Flangeless (installed in a recessed trench, supported on adjustable threaded leveling legs)

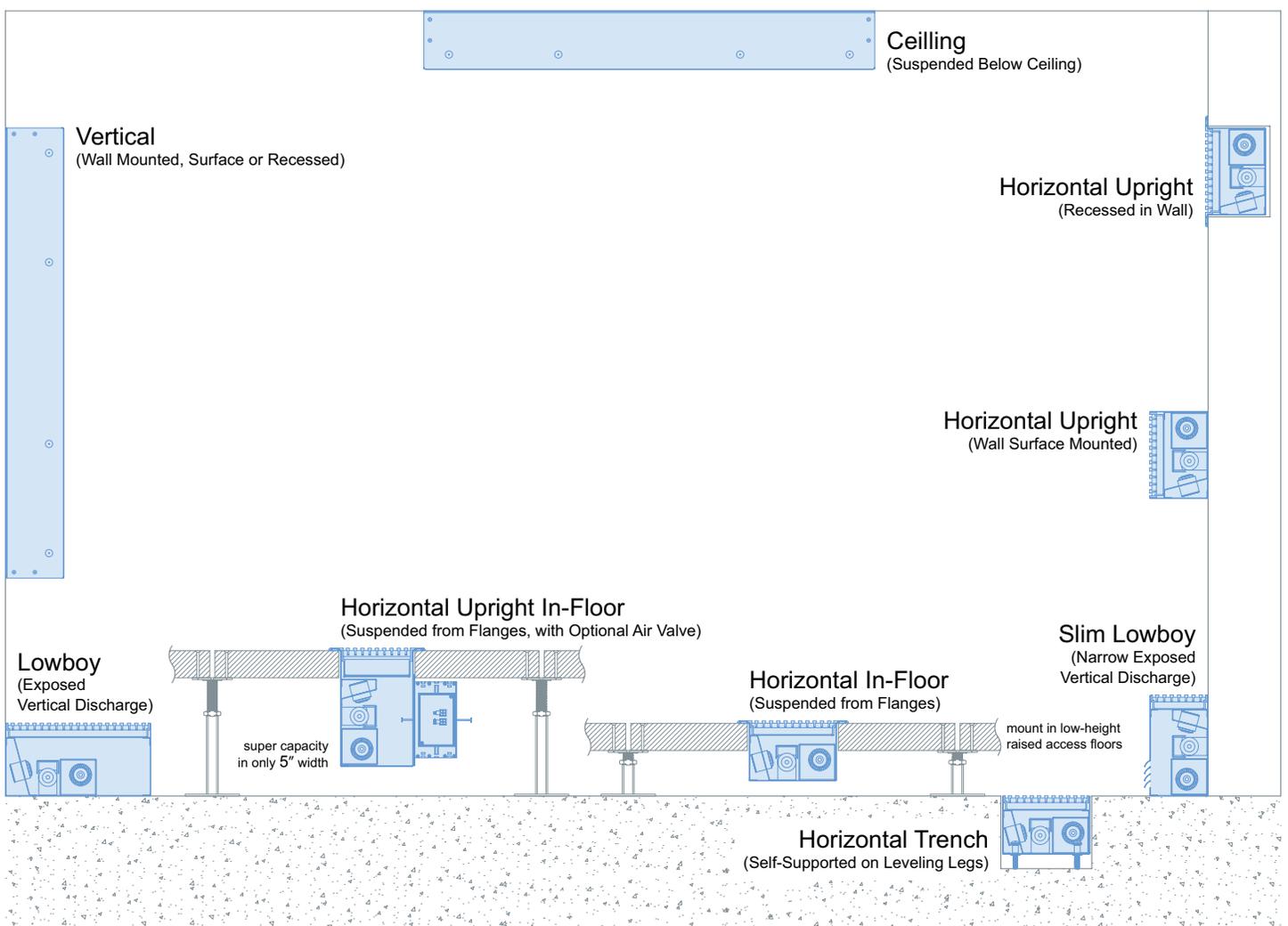


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#### Installation Options (continued)

#### Example Mounting Options

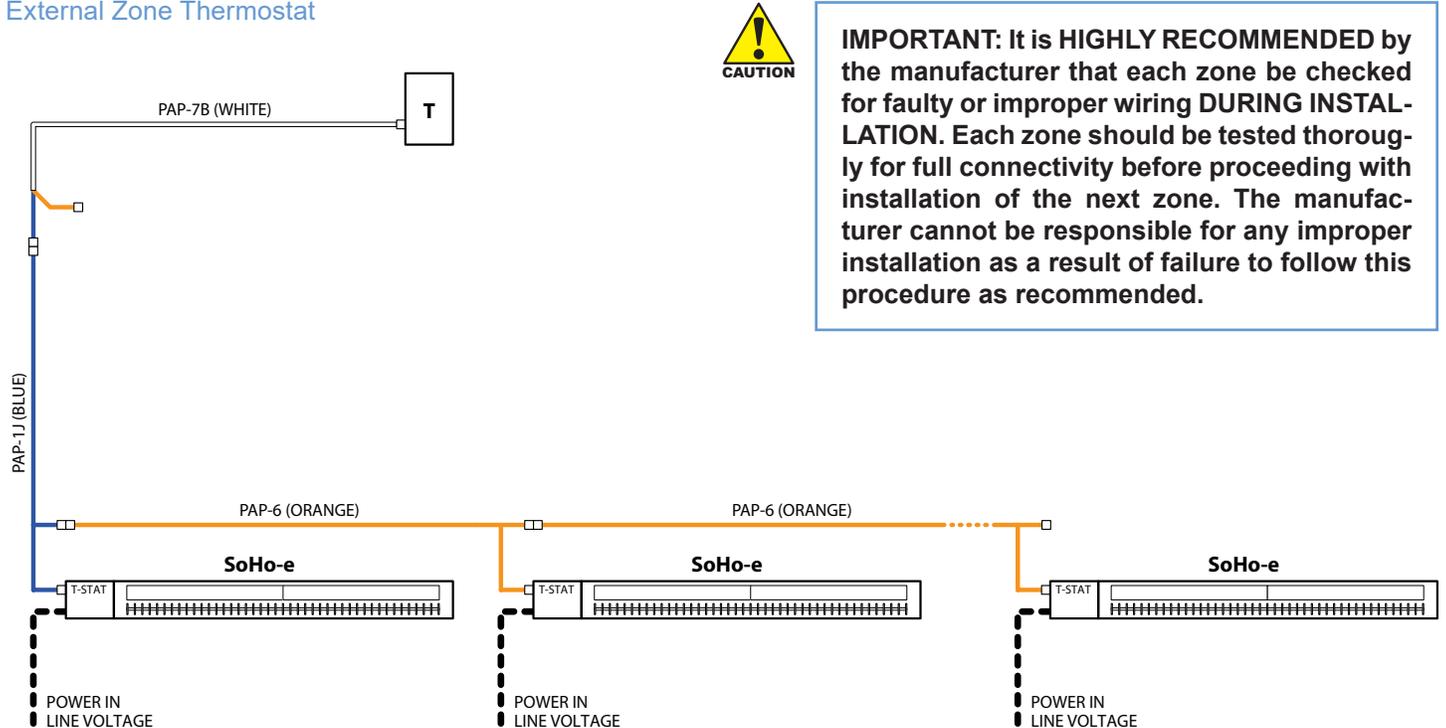


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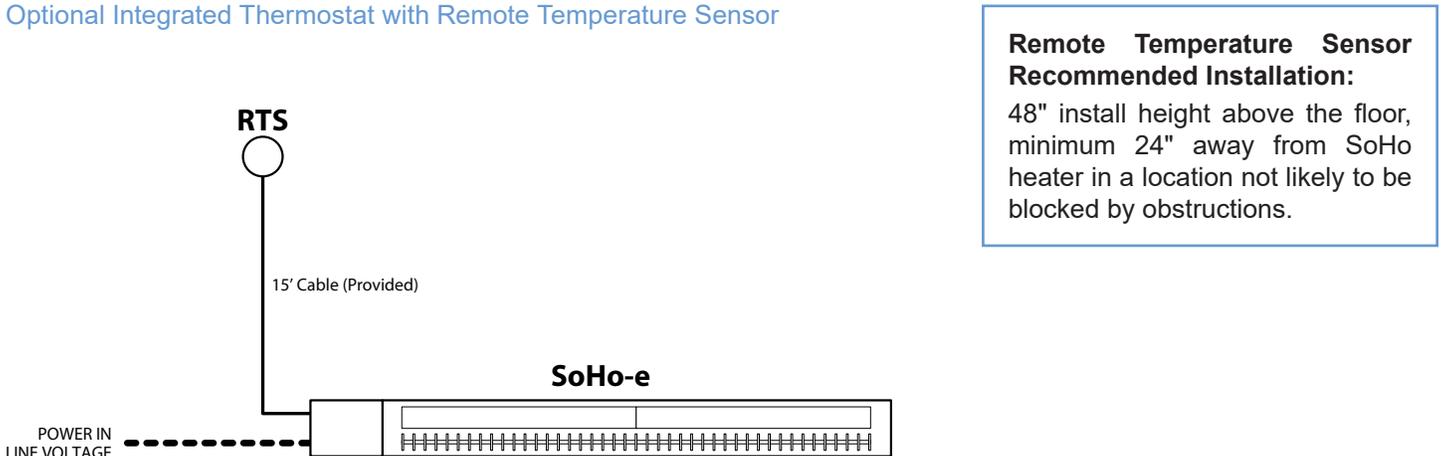
#### Example Zones

##### External Zone Thermostat



**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.

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



**Remote Temperature Sensor Recommended Installation:**  
48" install height above the floor, minimum 24" away from SoHo heater in a location not likely to be blocked by obstructions.

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