

Specification Sheet

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

Description

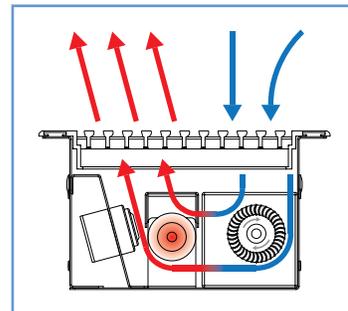
SoHo-e Electric Fan-Powered Linear Terminal is designed to create an efficient and simple solution to meet perimeter heating needs, in a variety of residential and commercial applications. The unit is ETL listed, fully certified to UL standards.

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 0–1" (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. 0–10VDC control signal is received from an external zone controller via modular plug and play moxex connection; an optional integrated controller is available.

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



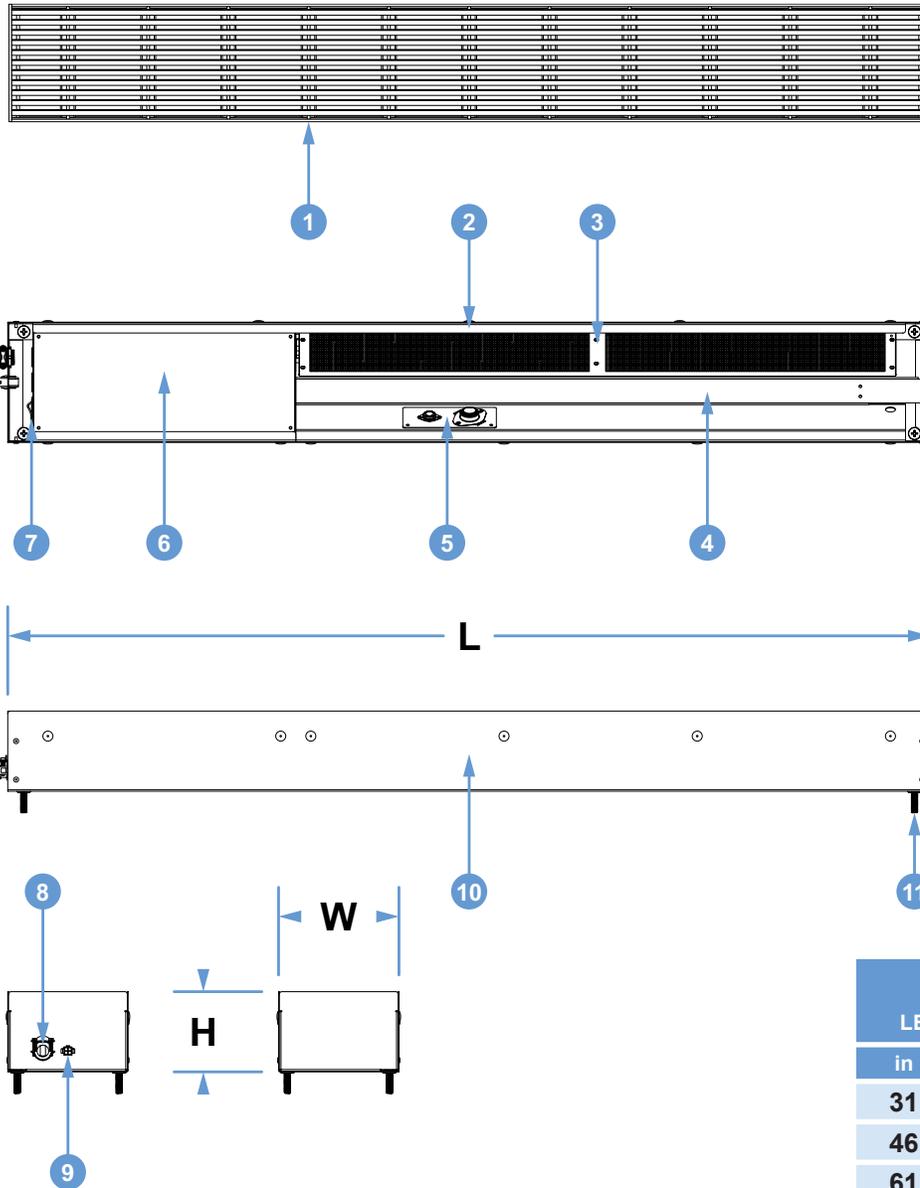
SoHo fan-powered linear terminals utilize cross-flow fans to recirculate and condition air within an occupied space.



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Example Unit Detail



1. Linear diffuser grille (multiple options for material, finish and flange configuration; specify on order)
2. Linear grille support flanges
3. 24VDC ECM cross-flow fans with finger guards
4. Sheathed electric heating element (0.5–2.0kW standard)
5. Thermistor / thermal cutout
6. Controls housing
7. On/off control switch (circuit breaker)
8. Line power connection clamp
9. Plug and play control cable molex 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 4" (102mm) 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 coat colors; additional colors and finishes available at architect's choice
- Optional threaded leveling legs for unit height adjustment
 - 0–1" (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 moxex 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 [UL STD. 60335-1 & UL STD. 60335-2-40]

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 3 conductors: Line1 / Line2 / Ground

PRODUCT DESCRIPTION			PRIMARY VOLTAGE / PH		MAXIMUM HEAT OUTPUT		HEATER AMPS	MOTOR VOLTAGE	MCA	MOP
					UNIT LENGTH	KW				
SoHo-e	12	05	120V	1	31" (767mm)	0.5kW	4.2A	24VDC	5.2A	10A
		10			46" (1168mm)	1.0kW	8.3A		10.4A	15A
		15			61" (1549mm)	1.5kW	12.5A		15.6A	20A
		20			77" (1956mm)	2.0kW	16.7A		20.8A	25A
	20	05	208V	1	31" (767mm)	0.5kW	2.4A	24VDC	3.0A	5A
		10			46" (1168mm)	1.0kW	4.8A		6.0A	10A
		15			61" (1549mm)	1.5kW	7.2A		9.0A	10A
		20			77" (1956mm)	2.0kW	9.6A		12.0A	15A
	24	05	240V	1	31" (767mm)	0.5kW	2.1A	24VDC	2.6A	5A
		10			46" (1168mm)	1.0kW	4.2A		5.2A	10A
		15			61" (1549mm)	1.5kW	6.3A		7.8A	10A
		20			77" (1956mm)	2.0kW	8.3A		10.4A	15A
	27	05	277V	1	31" (767mm)	0.5kW	1.8A	24VDC	2.3A	5A
		10			46" (1168mm)	1.0kW	3.6A		4.5A	5A
		15			61" (1549mm)	1.5kW	5.4A		6.8A	10A
		20			77" (1956mm)	2.0kW	7.2A		9.0A	10A

Additional Voltages / 50Hz capabilities available on request.

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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 100% ¹	ON 50%
HEATING STAGE 2	50%	ON 100% ¹	ON 75%
HEATING STAGE 3	70%	ON 100% ¹	ON 100%

Notes

- Fan Speed Max in Heating Mode (1) 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
- 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:
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)

Air Flow Capacity:
(Nominal Maximum)
One (1) Fan (1x Single Assembly) | 62 cfm (105 m³/hr) | Minimum 31"L (838mm) Unit
Two (2) Fans (1x Dual Assembly) | 125 cfm (213 m³/hr) | Minimum 46"L (1219mm) Unit
Three (3) Fans (1x Triple Assembly) | 185 cfm (315 m³/hr) | Minimum 61"L (1575mm) Unit
Four (4) Fans (2x Dual Assembly) | 250 cfm (425 m³/hr) | Minimum 77"L (1981mm) Unit

Heating Capacity:
(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

Grille Configuration:
Extruded Aluminum | Natural Anodized / Powder Coat 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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Example 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)

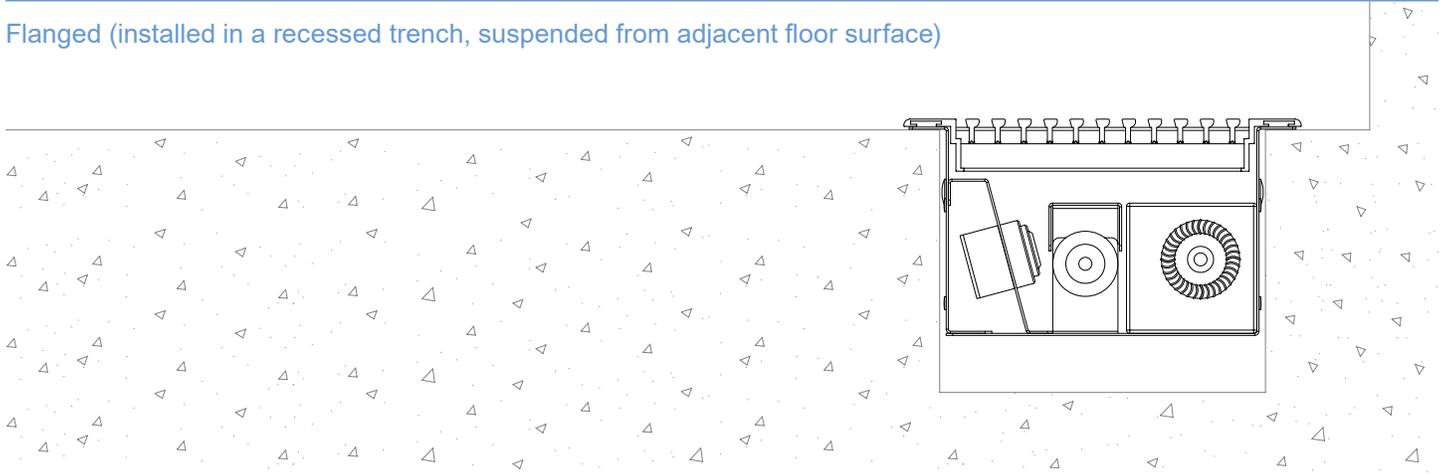


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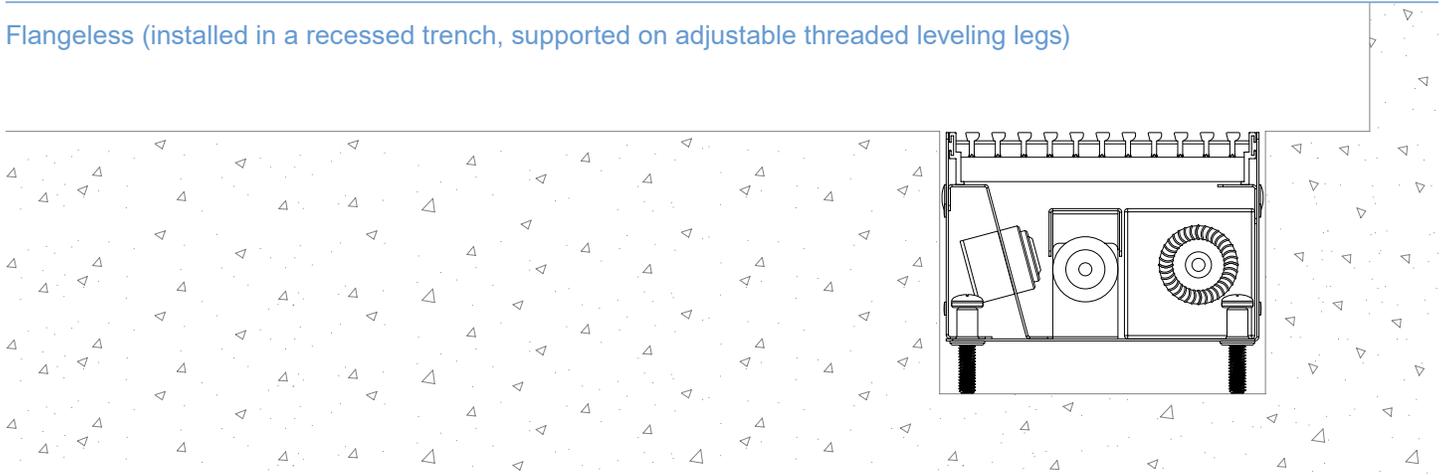
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Example Installation Options (continued)

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



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

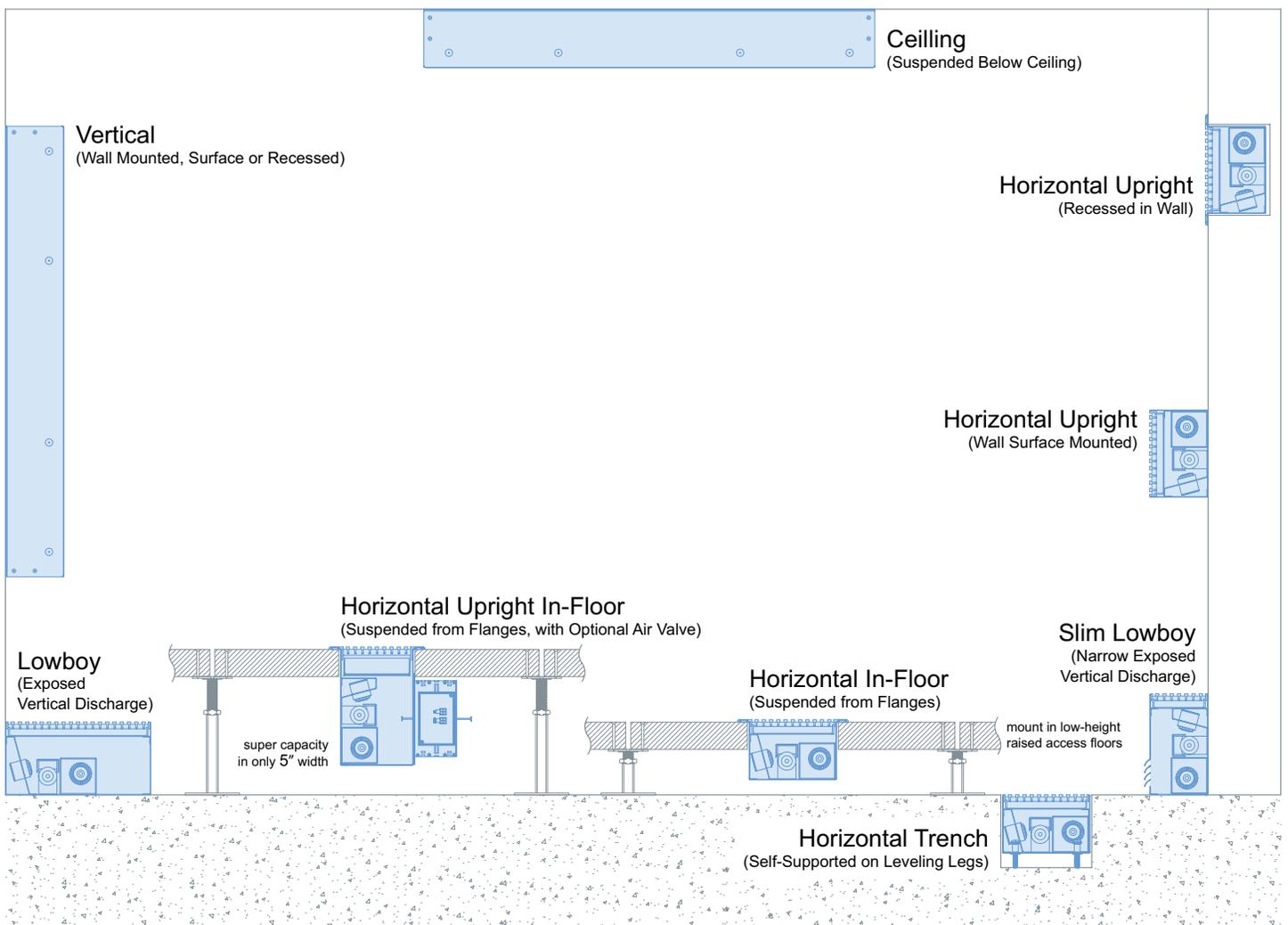


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Example Installation Options (continued)

Example Mounting Options

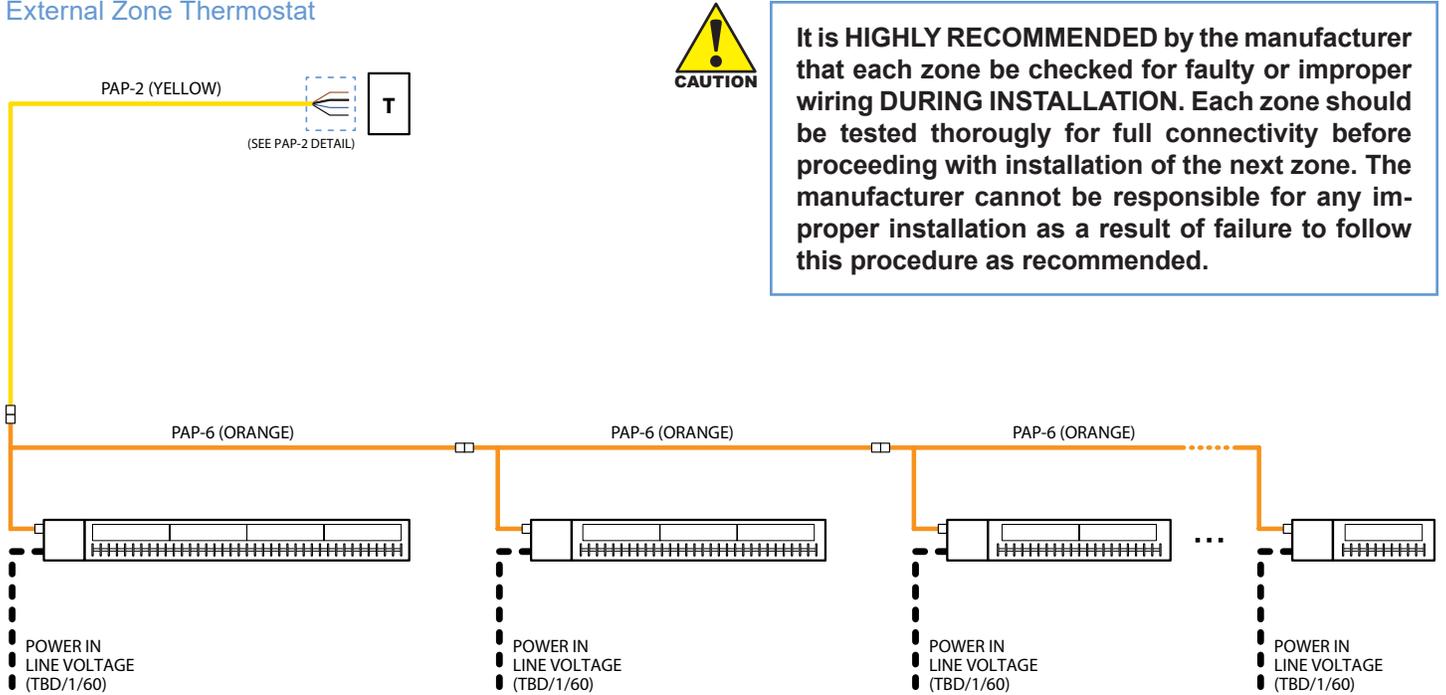


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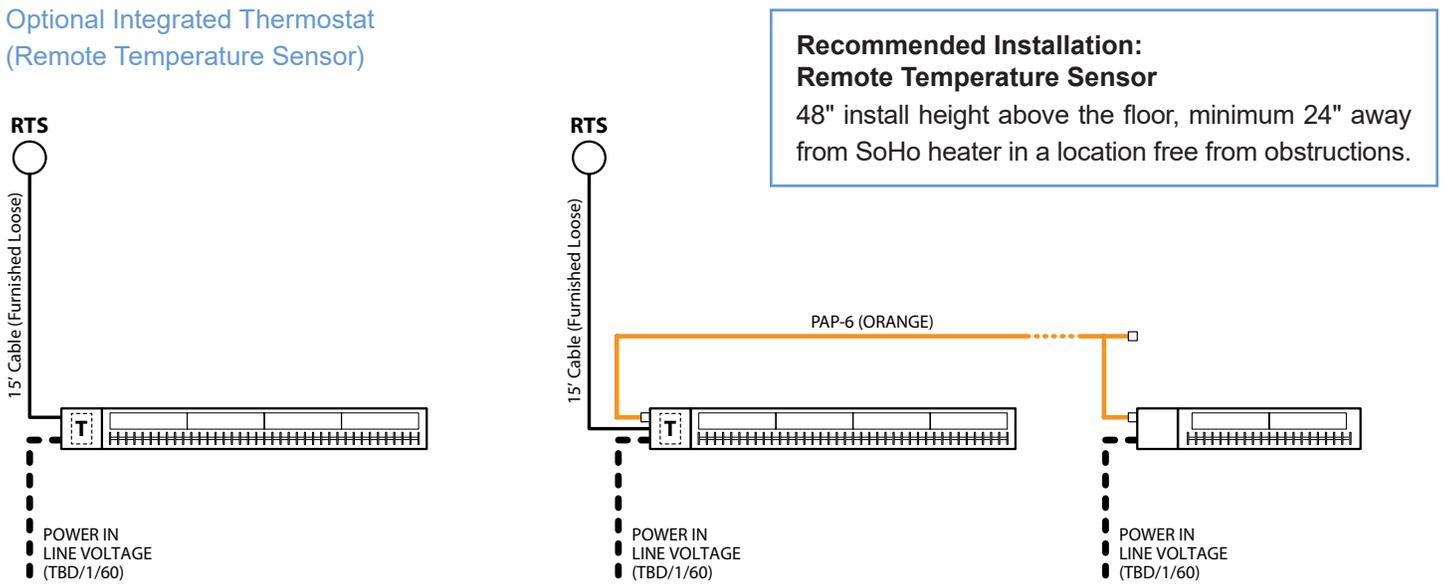
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Example Zones

External Zone Thermostat



Optional Integrated Thermostat (Remote Temperature Sensor)



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