

Specification Sheet

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

Description

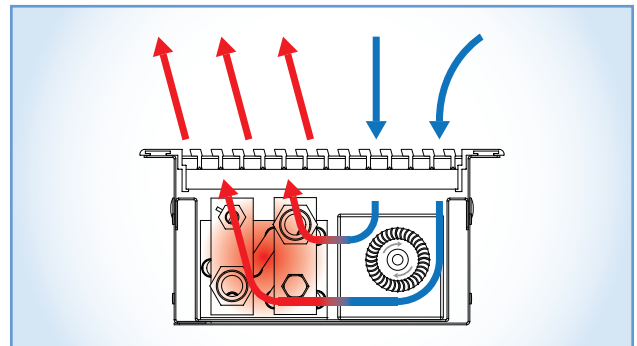
SoHo-w Hydronic Fan-Powered Linear Terminal is designed to create an efficient and simple solution to meet perimeter heating needs, in a variety of residential and commercial applications. The unit is ETL listed, fully certified to UL standards.

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 hydronic fin pack has been rated in accordance with AHRI Standard 410. Design is two (2) pipe, three (3) row configuration; rows are 3/8" (9.5mm) copper tubing with standard 1/2" Male NPT supply and return connections. Hot or chilled water can be passed through to meet seasonal heating and cooling requirements. Finned length and capacity are dependant on overall terminal dimensions (refer to Performance Summary section for additional information).

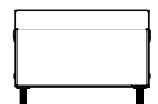
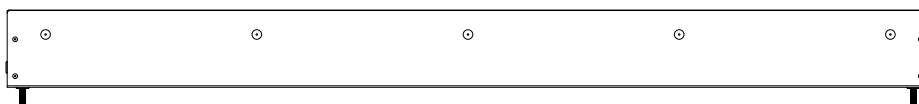
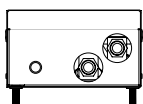
Conditioned air is actively circulated using air flow supplied by 24VDC variable speed ECM cross-flow fans; configuration and maximum capacity is dependant on overall length of the terminal / fin pack. Integral terminal blocks are included for 24VDC power and 0–10VDC control signal terminations (all associated wiring field furnished and installed by others).

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.

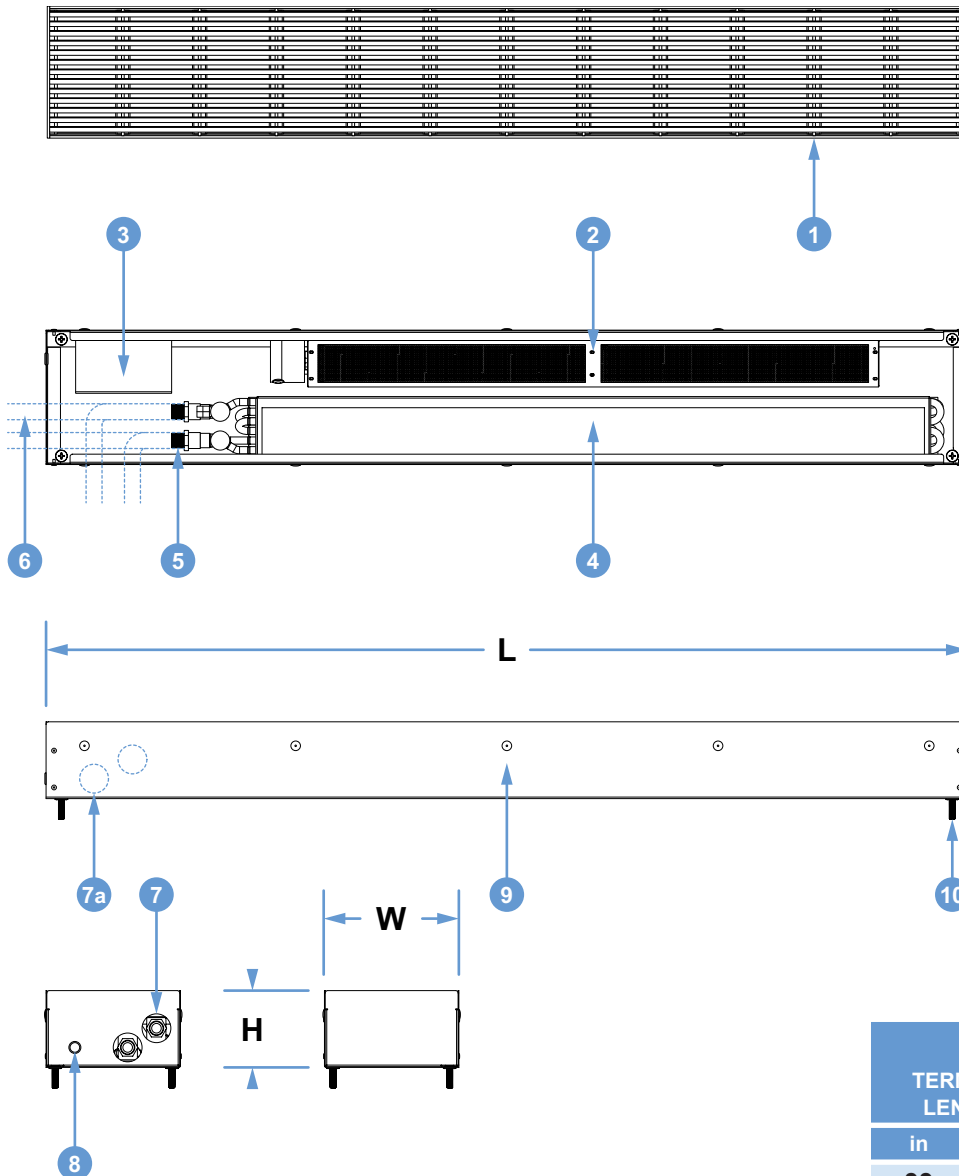
Model	Length (in)	Width (in)	Height (in)	Weight (lb)	Capacity (BTU/hr)	Flow (CFM)	Power (W)	Control (VDC)	Supply (in)	Return (in)	Notes
SHW-12	12	4	1.5	1.5	1,200	100	10	24	1/2	1/2	Standard
SHW-18	18	4	1.5	2.2	1,800	150	15	24	1/2	1/2	Standard
SHW-24	24	4	1.5	3.0	2,400	200	20	24	1/2	1/2	Standard
SHW-30	30	4	1.5	3.8	3,000	250	25	24	1/2	1/2	Standard
SHW-36	36	4	1.5	4.5	3,600	300	30	24	1/2	1/2	Standard
SHW-42	42	4	1.5	5.2	4,200	350	35	24	1/2	1/2	Standard
SHW-48	48	4	1.5	6.0	4,800	400	40	24	1/2	1/2	Standard
SHW-54	54	4	1.5	6.8	5,400	450	45	24	1/2	1/2	Standard
SHW-60	60	4	1.5	7.5	6,000	500	50	24	1/2	1/2	Standard
SHW-66	66	4	1.5	8.2	6,600	550	55	24	1/2	1/2	Standard
SHW-72	72	4	1.5	9.0	7,200	600	60	24	1/2	1/2	Standard
SHW-78	78	4	1.5	9.8	7,800	650	65	24	1/2	1/2	Standard
SHW-84	84	4	1.5	10.5	8,400	700	70	24	1/2	1/2	Standard
SHW-90	90	4	1.5	11.2	9,000	750	75	24	1/2	1/2	Standard
SHW-96	96	4	1.5	12.0	9,600	800	80	24	1/2	1/2	Standard
SHW-102	102	4	1.5	12.8	10,200	850	85	24	1/2	1/2	Standard
SHW-108	108	4	1.5	13.5	10,800	900	90	24	1/2	1/2	Standard
SHW-114	114	4	1.5	14.2	11,400	950	95	24	1/2	1/2	Standard
SHW-120	120	4	1.5	15.0	12,000	1,000	100	24	1/2	1/2	Standard



Specification Sheet

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

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. Terminal block housing
4. Hydronic heating fin pack
5. 1/2" Male NPT supply / return water connections
6. Piping connections
(furnished / installed by others)
7. Piping connection access
- 7a. Alternate piping connection access (specify on order)
8. 24VDC power / 0–10VDC control wiring access (field furnished / installed by others)
9. 20 gauge (1mm) galvanized steel casing, pre-painted black
10. Adjustable threaded leveling legs (optional; specify on order)

L TERMINAL LENGTH		W TERMINAL WIDTH		H TERMINAL HEIGHT	
in	mm	in	mm	in	mm
33	838	7	178	4	102
48	1219				
63	1600				
78	1981				
ALL DIMENSIONS NOMINAL ± 0.1" (2.5mm)					

Specification Sheet

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

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 support
 - 0–1" (25mm) maximum manual height adjustment
- ETL listed, fully certified in accordance with UL standards [UL STD. 60335-1 & UL STD. 60335-2-40]
- Integral terminal blocks for 24VDC power / 0–10VDC control signal terminations (all wiring field furnished and installed by others)
- Hydronic fin pack (performance rated in accordance with AHRI Standard 410)
 - Variable finned length (based on terminal length and scheduled performance requirements)
 - 3/8"Ø (9.5mm) copper rows
 - 3" (76mm) fins / eleven (11) fins per 1" (25mm)
 - 1/2" Male NPT supply / return connections
 - Options for same side or opposite end connections, with side or front piping access (specify on order)
- 24VDC variable speed ECM cross-flow fans
 - 1x single fan assembly / 65 cfm (111 m³/hr)
 - 1x dual fan assembly / 130 cfm (221 m³/hr)
 - 1x triple fan assembly / 185 cfm (315 m³/hr)
 - 2x dual fan assemblies / 250 cfm (425 m³/hr)

Performance Summary

UNIT LENGTH	COIL LENGTH	AIR FLOW CAPACITY		COIL PERFORMANCE					GENERAL PERFORMANCE (120–180° EWT)	
		FAN CONFIG	CFM	GPM	180°F EWT	LAT °F	140°F EWT	LAT °F	BTU	LAT °F
33	20	1-Fan	65	0.9	6,324	160	3,903	124	3,000	110
48	35	2-Fan	130	1.1	12,150	155	7,835	123	5,900	110
63	50	3-Fan	185	1.2	17,042	154	10,870	122	8,400	110
78	65	4-Fan	250	1.4	22,735	152	14,547	122	11,400	110
ADJUST GPM TO NORMALIZE @ 110°F LAT										

Specification Sheet

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

Specifications

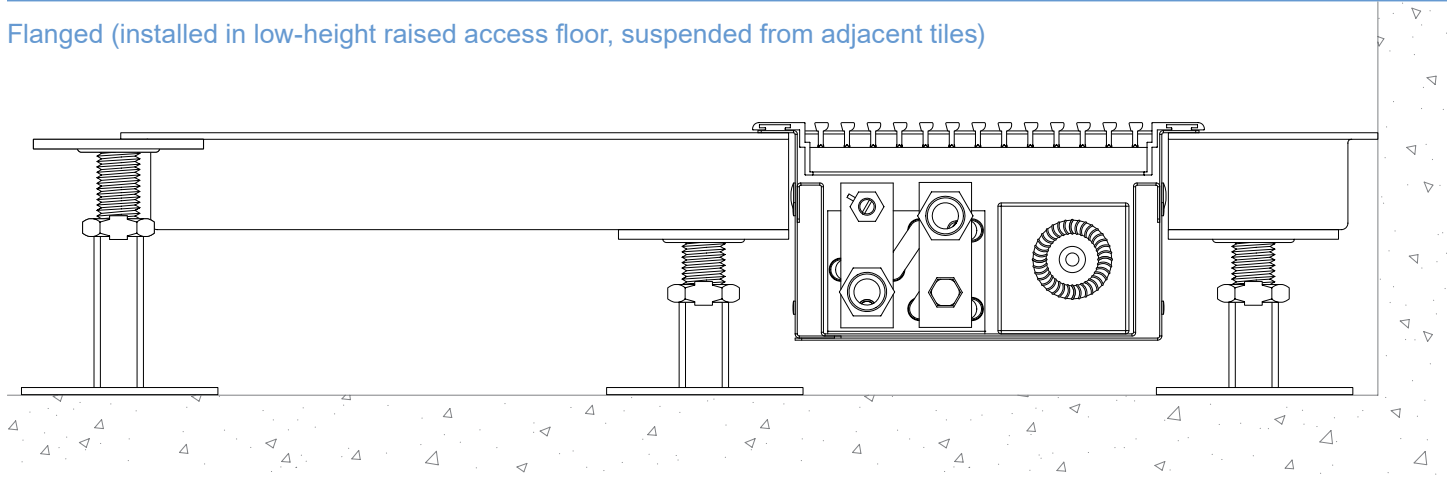
Application:	Low Profile Fan-Powered Heating Raised Access Floor / Recessed Perimeter Trench
Terminal Construction:	Galvanized Steel 20 Gauge (1mm) Pre-Painted Black
Terminal Dimensions: LxWxH (Nominal)	33" x 7" x 4" (838mm x 178mm x 102mm) 48" x 7" x 4" (1219mm x 178mm x 102mm) 63" x 7" x 4" (1600mm x 178mm x 102mm) 78" x 7" x 4" (1981mm x 178mm x 102mm)
Air Flow Capacity: (Nominal Maximum)	One (1) Fan (1x Single Assembly) 65 cfm (111 m³/hr) Minimum 33"L (838mm) Unit Two (2) Fans (1x Dual Assembly) 130 cfm (221 m³/hr) Minimum 48"L (1219mm) Unit Three (3) Fans (1x Triple Assembly) 185 cfm (315 m³/hr) Minimum 63"L (1600mm) Unit Four (4) Fans (2x Dual Assembly) 250 cfm (425 m³/hr) Minimum 78"L (1981mm) Unit
Heating Capacity: (Nominal Maximum)	3,000 Btu Minimum 33"L (838mm) Unit 5,900 Btu Minimum 48"L (1219mm) Unit 8,400 Btu Minimum 63"L (1575mm) Unit 11,400 Btu Minimum 78"L (1981mm) Unit Refer To Performance Summary For Additional Information
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

Specification Sheet

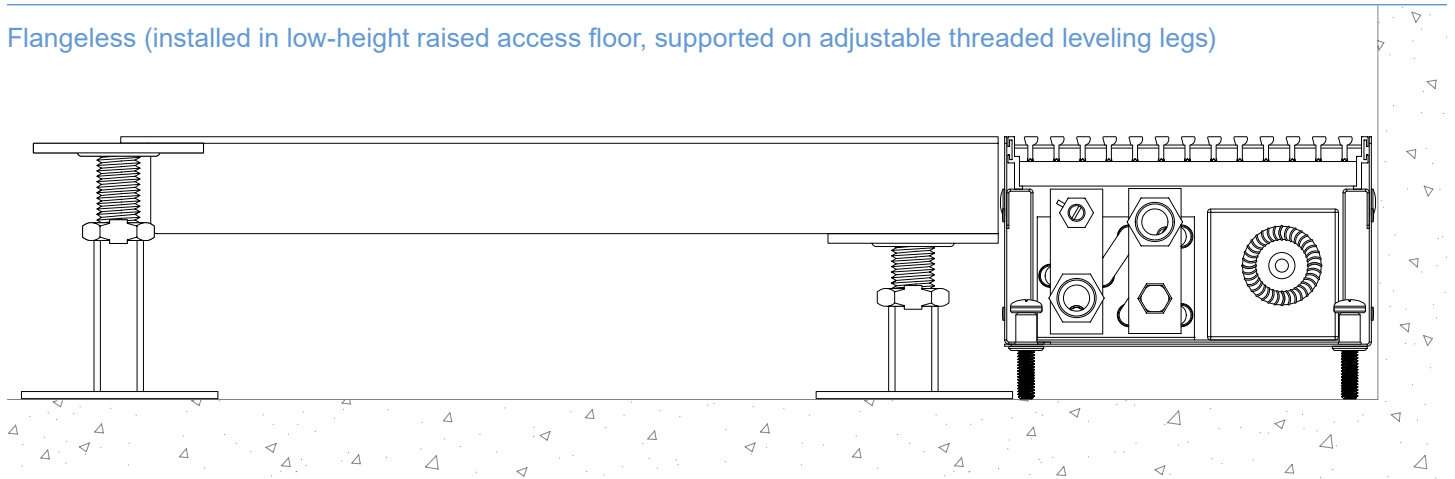
SoHo-w Low Profile Fan-Powered Linear Terminal (Hydronic Heating)

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)

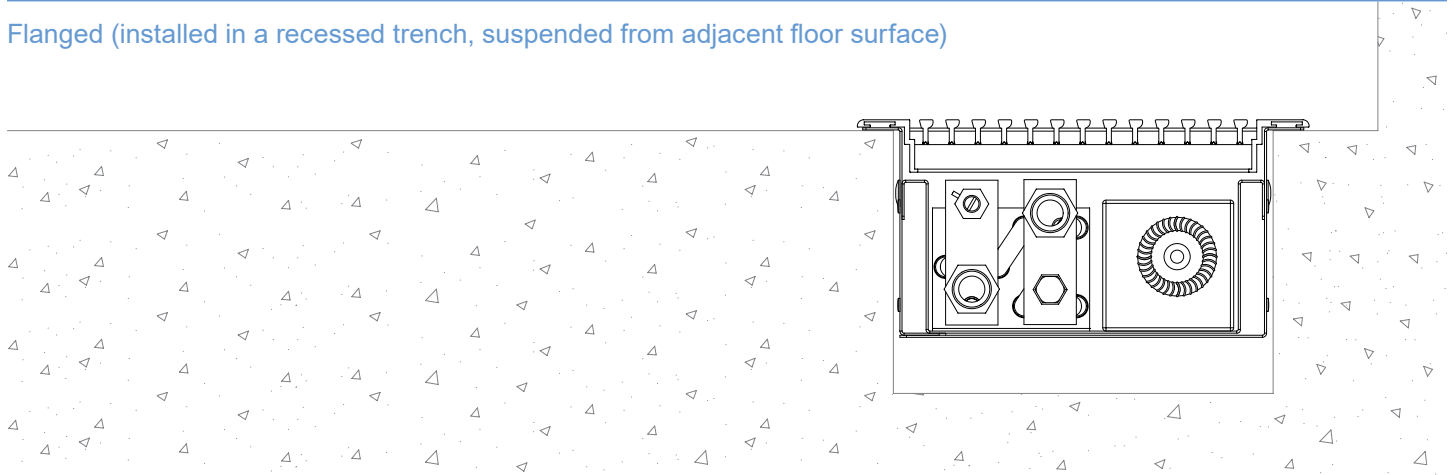


Specification Sheet

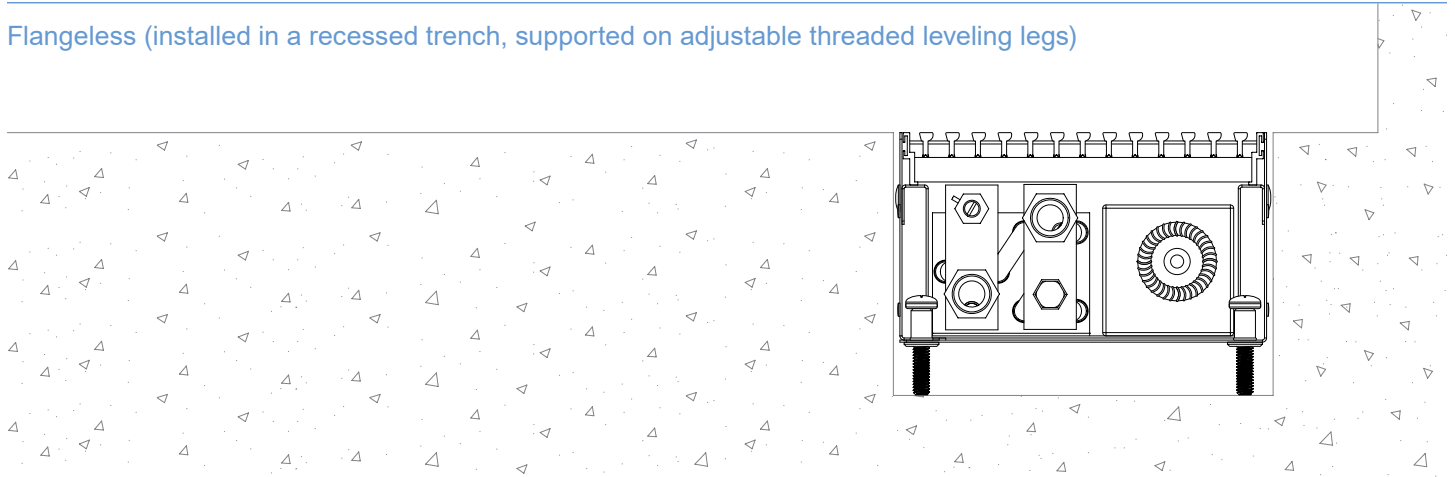
SoHo-w Low Profile Fan-Powered Linear Terminal (Hydronic Heating)

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)

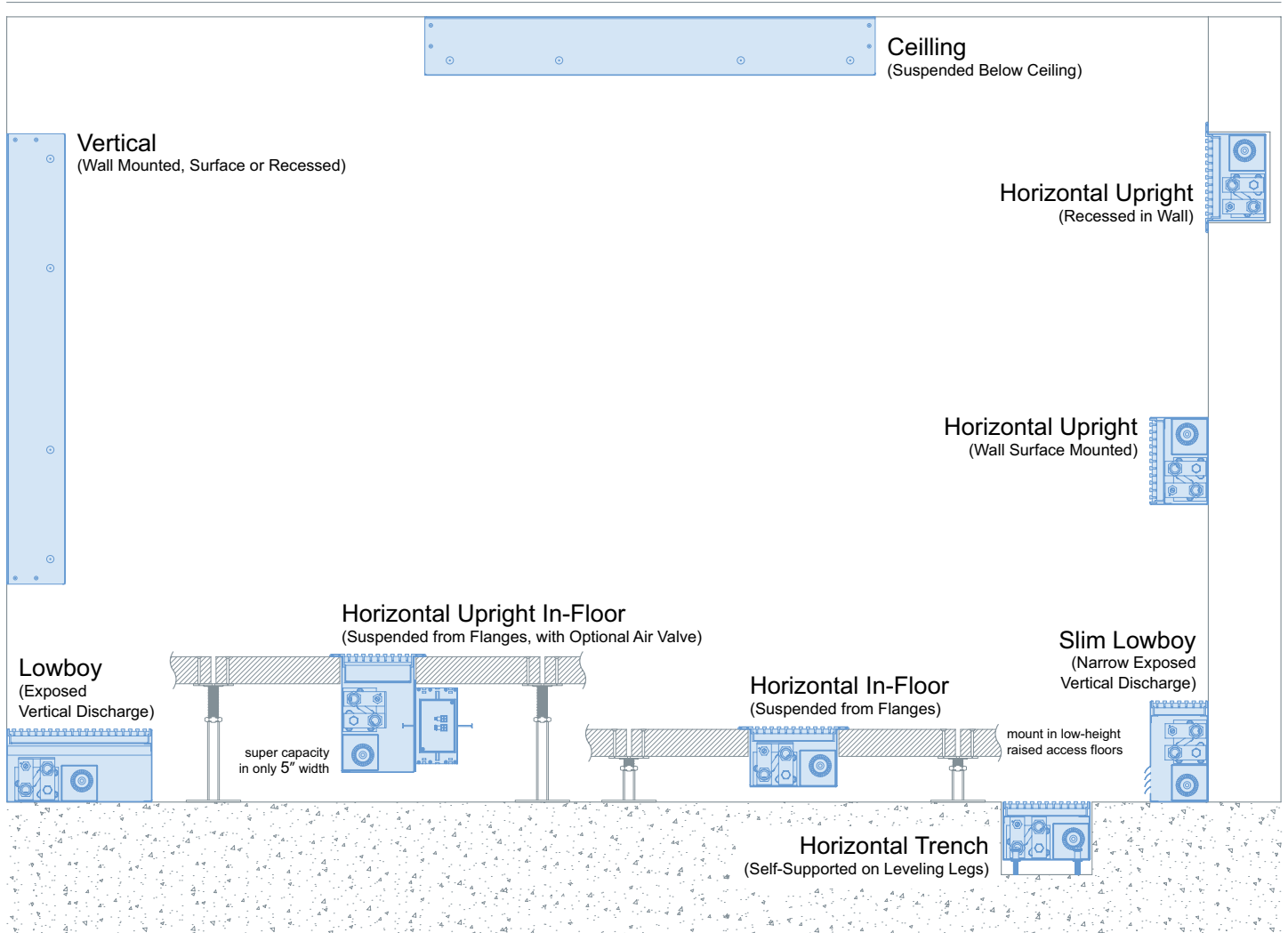


Specification Sheet

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

Installation Options (continued)

Example Mounting Options



Specification Sheet

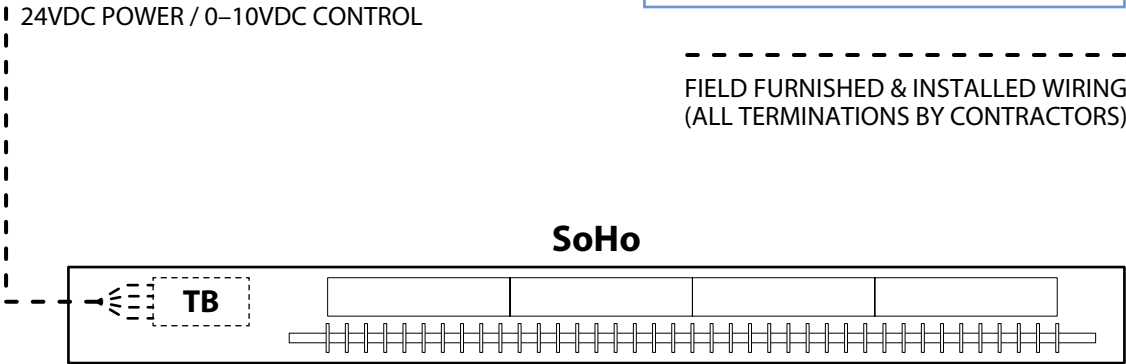
SoHo-w Low Profile Fan-Powered Linear Terminal (Hydronic Heating)

Example Wiring



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.

TERMINAL BLOCK
24VDC
0–10VDC HEATING SIGNAL
0–10VDC COOLING SIGNAL
COMMON



Specification Sheet

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

