Archatrak Heatizon Snow Melt System

SNOW MELT SYSTEM

The Heatizon Snow Melt system provides efficient and effective snow melting capability for pedestal mounted pavers on exterior elevated surfaces, including roof decks, terraces, patios, and walkways. Surface heating is provided by electrical heating cables laid under the pavers. The heated area can be confined to specific zones in a paved area or to just a section of a paver if required. It can also be retroactively fitted to existing elevated paving installations.

- Much lower installation costs than fluid circulation systems
- Can be installed under most porcelain, concrete or stone pavers.
- Can be used on any size area, small or large.
- Does not require engineers to design layout, piping or system specs.
- Requires only 1 3/4” minimum clearance under the pavers.
- Can be retroactively installed under existing pedestal supported pavers.
- No boiler, pump, gas connection, pipe network, valves, or manifolds.
- Only requires an electrical supply access & a location for the control box.

Specifications

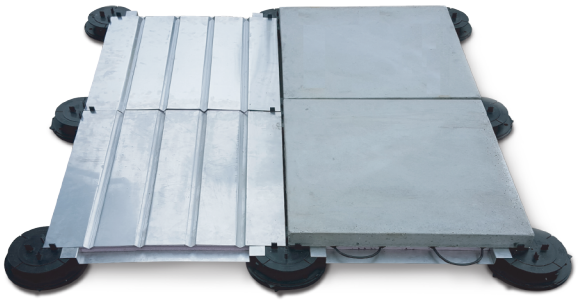
Panel size	23.5” x 23.5” (other sizes on request).
System height	1 5/16” including insulation.
Insulation	Polyurethane foam sheets.
Cable support tray	Aluminum
Heating element	Mineral insulated resistance cable.
Power consumption (typ.)	40W per sq. ft.

Installation Reguirements

A nearby power outlet of sufficient power rating to supply the heating requirement is required. Typically, the system will be connected to a Heatizon System M-330G-40 Series Relay Panel, allowing up to four individual 50 Amp heating circuits to be connected to one relay panel.

Any installation must comply with applicable local electrical codes and should be installed by a licensed electrical contractor with experience in installing projects utilizing electric heating cable systems.

System Components



Aluminum support brackets, 4” wide, are laid between adjustable height pedestals to support polyurethane foam insulation. Aluminum trays, with pre-adhered insulation and V-shaped channels for the heating element, are placed on the brackets.

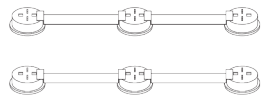
The heating cable is laid in the channels, run the full length and width of the area to be heated and returned to a common electrical connection point. The heating element is pre-fabricated by Heatizon Systems to the length required and joined to a PVC jacketed copper sheath cold lead section by a pre-fabricated joint.

The cold leads are connected to a control box with a timer for manual activation or an aerial snow switch to activate heating when moisture is detected and the ambient temperature is below a selectable set point in the range 34° – 44°F.

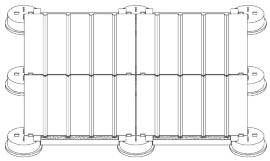
Heatizon System Layout

Archatrak snow melt systems are custom designed for each project. A precise layout of cables is provided by Archatrak before installation and should be followed carefully.

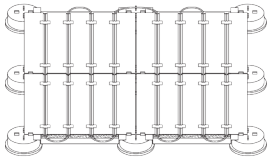
1. Lay out the pedestals supporting the pavers in the approximate final location. Note that pavers need to be installed one row at a time to allow adequate access for work.



2. Place the 4” wide aluminum brackets used to support the insulation sheet and tray between adjacent pedestals and resting on the pedestal heads. Brackets are laid perpendicular to the cable runs.

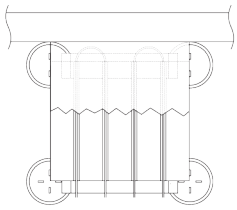


3. Place the aluminum tray with insulation and V-shaped channels for the heating element on the bracket. The tray should be slightly smaller than a paver to allow for expansion and contraction of the metal.

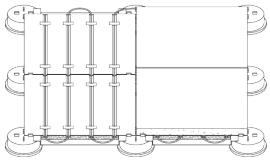


4. Start the cable run where specified on the layout provided, following the Hott-Wire MI Cable instructions when laying. Lay the cables along each channel and tape them in place with heavy duty aluminum tape.

5. When running cables from one channel to the next or when a boundary wall is reached, bend the cables in an arc to make a return. Do not allow the heating element to touch any roofing materials if installed on a roof deck.

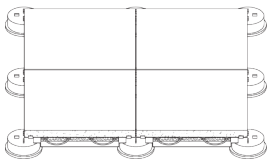


6. Where heating cable turns must be made against a wall or where a partial paver is used, the tray must be cut 5” shorter than the paver to allow for heating element turns to be made.



7. Attach cold lead assemblies to exit the final tray and run to the power source, ensuring all local building codes are followed when running cold leads.

8. Carefully place the pavers on top of the tray, ensuring all cables are tightly secured within the channels of the tray.



9. Install the required controllers, timer or aerial snow switch.