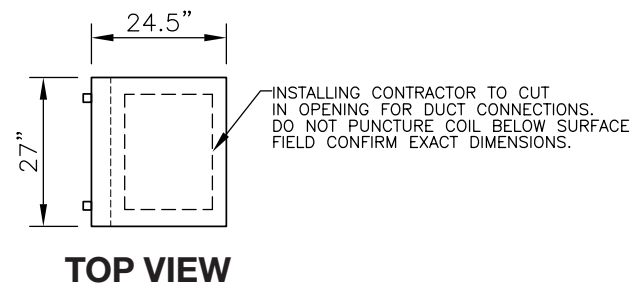
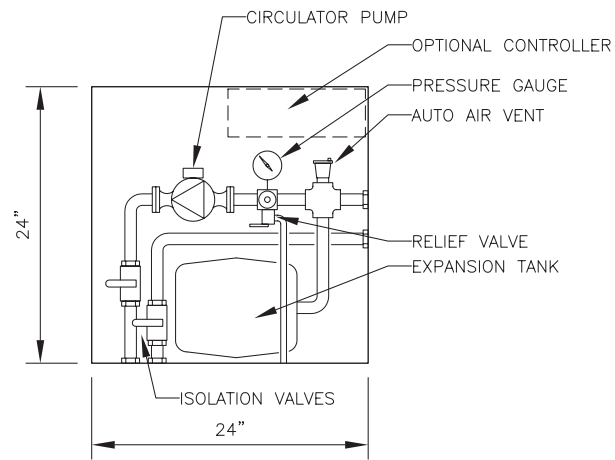
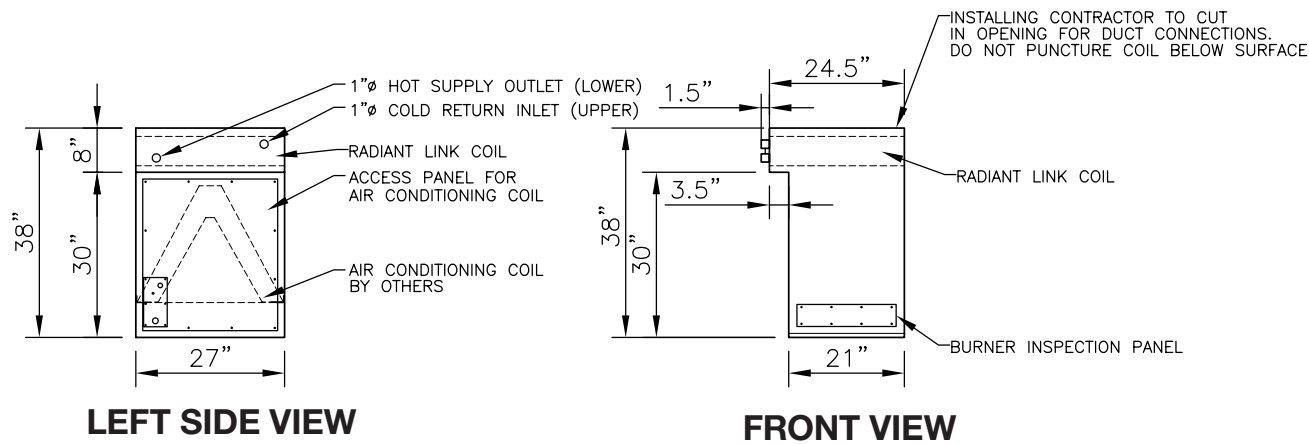


## Dimensions

Distributed to qualified installation contractors through:  
 HVAC Sales (1997) Ltd.  
 1362 Lorne Street,  
 Regina, Saskatchewan,  
 Canada S4R 2K1  
 Phone: (306) 721-7980  
 Fax: (306) 721-7982  
 Email: sales@embodiedenergy.ca

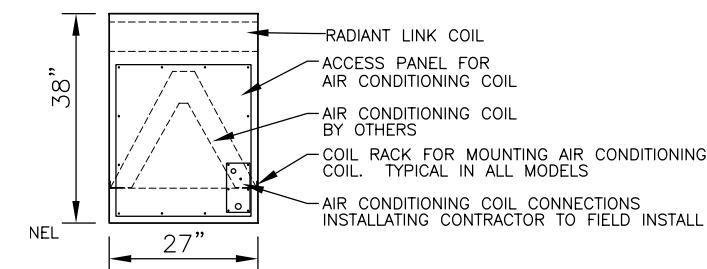


## Control Panel

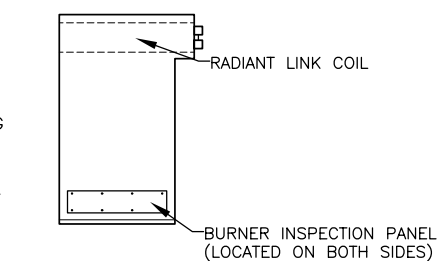


## LEFT SIDE VIEW

## FRONT VIEW



## RIGHT SIDE VIEW



## BACK VIEW

**NOTE:**

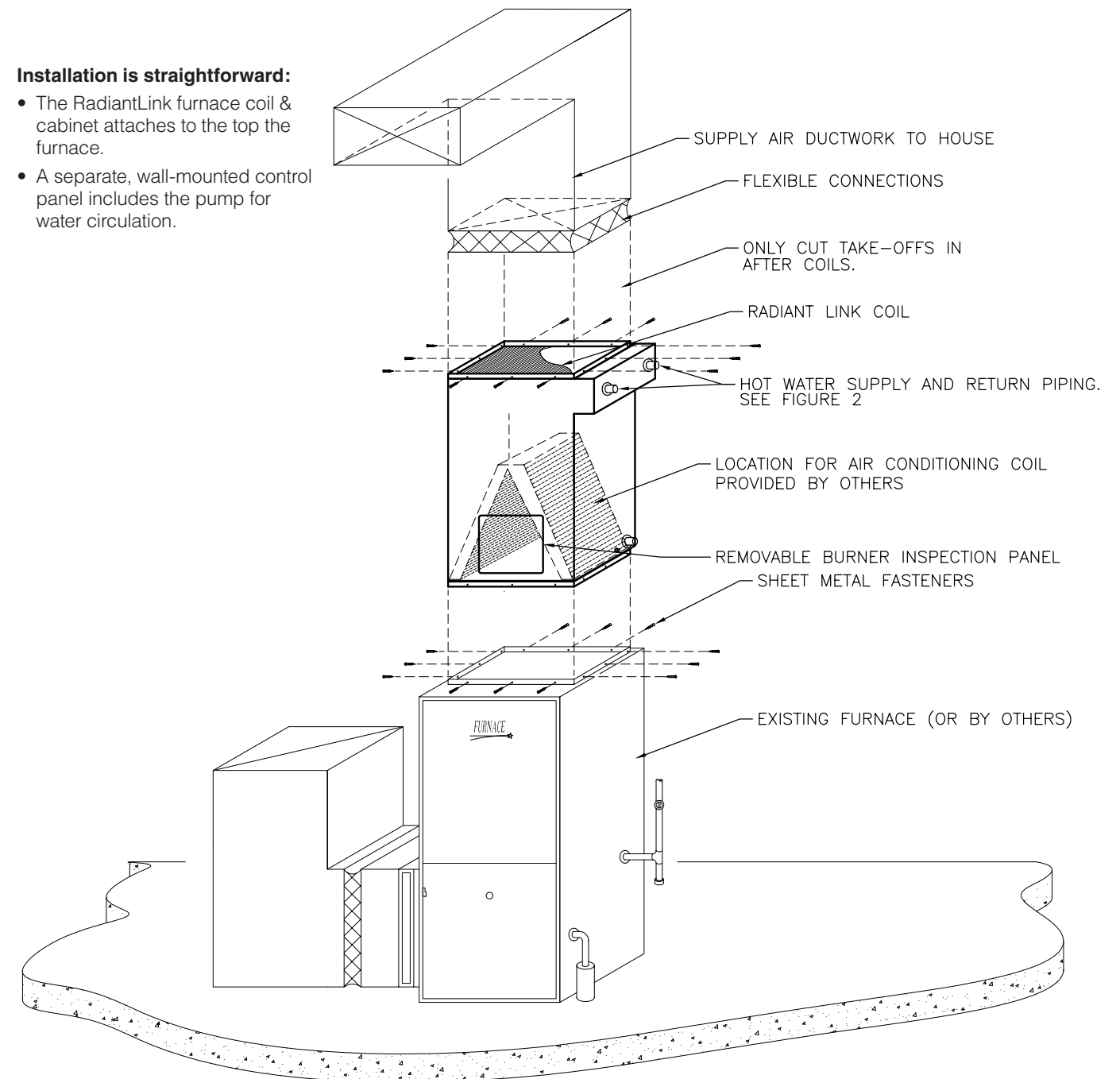
1. TAKE CARE WHEN CUTTING IN DUCTWORK TO PREVENT DAMAGE TO COIL
2. RIGHT OR LEFT HAND COIL CONNECTIONS CAN BE CHOSEN IN THE FIELD, DEPENDING ON WHICH SIDE THE HANDING OF THE COOLING COIL
3. USE FOIL TAPE TO SEAL ALL SEAMS WHEN COMPLETE.

## Furnace Coil & Cabinet

# Installation Guide

**Installation is straightforward:**

- The RadiantLink furnace coil & cabinet attaches to the top of the furnace.
- A separate, wall-mounted control panel includes the pump for water circulation.



## FURNACE COIL & CABINET INSTALLATION

# RadiantLink INSTALLATION

## General

1. Installation only by qualified experienced ventilation & heating trades people.
2. For reduced warm-up time, energy consumption and for improved performance, the installation (by others) of slab edge insulation and under-slab insulation is highly recommended.

## Furnace-Coil

1. If optional coil cabinet is provided, provide opening in bottom of cabinet to suit furnace discharge. Provide opening in top of coil cabinet similar in size or larger than furnace discharge opening for connection to supply air distribution ductwork. Take care when cutting top opening to not damage coil.
2. If optional coil cabinet is not provided, construct gradual galvanized sheet metal transition from furnace discharge (or cased AC coil discharge) to coil flange.
3. Provide flexible connection between coil flange (cabinet) and supply air distribution ductwork and provide turning vanes in vertical to horizontal elbow to provide even airflow across coil and to reduce static pressure drop.
4. If applicable, install AC coil within coil cabinet.

## Control Panel Piping

1. Secure control panel to wall and pipe in-slab piping manifolds to bottom threaded supply and return connections.
2. Provide 20mm dia. interconnecting PEX or copper type L piping between Coil discharge and Control Panel side inlet and between Coil inlet and Control Panel side discharge. Provide required fittings and adaptors.
3. The control panel includes a system pressure relief valve. Do not install isolation valves between the furnace coil and the control panel.
4. Install manual air vents at coil inlet (highest coil connection) and at system high points.

5. Flush debris from system and fill with 30% industrially inhibited propylene glycol solution. Bleed all air from system. Damage to pump resulting from air-locking is not covered by warranty.
6. Disconnect and cap any direct connections to building domestic water service that may have been provided for system filling & flushing.

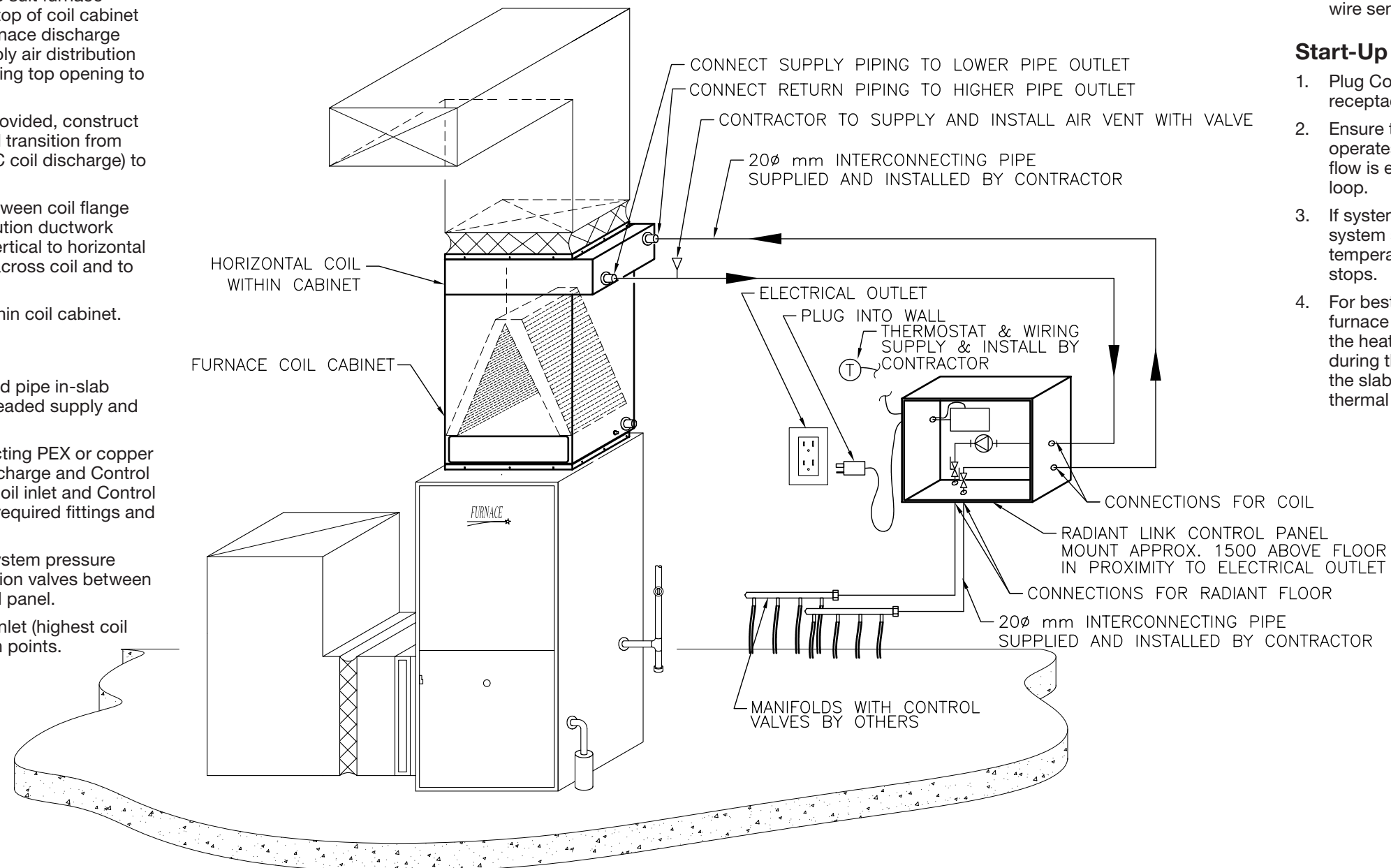
## Controls

1. On models without 4 zone controller, provide and wire low voltage thermostat to pump terminal strip. Mount thermostat within conditioned area.
2. On models with 4 zone controller, provide and wire low voltage thermostat(s) to zone controller terminal strip. Mount thermostat(s) within conditioned area. Wire control valves to 4 zone controller terminal strip.

3. Where units are equipped with AC cooling, RadiantLink pump must be interlocked to shut off when AC system is on. Provide snap-disc style low limit pipe temperature sensor and surface-mount on AC liquid line. Sensor to break circuit when AC system starts and pipe temperature drops below 10°C. Install sensor and insulate around it in accordance with sensor manufacturer's recommendations. On models without 4 zone controller, wire sensor in series with thermostat. On models with 4 zone controller, wire sensor to priority zone end-switch terminals.

## Start-Up

1. Plug Control Panel power cord into 120V receptacle.
2. Ensure that when thermostat calls for heat, pump operates and that air is removed from system and flow is evenly balanced through each manifold loop.
3. If system is equipped with AC cooling, when AC system starts, ensure that refrigerant liquid line temperature sensor opens circuit and that pump stops.
4. For best results, it is recommended that the furnace fan be set to operate continuously during the heating season. Operating the furnace fan during the cooling season will also help to temper the slab temperature and take advantage of geothermal cooling.



COIL PIPING CONNECTIONS