



Contractor Information

Company:
 Name:
 Phone Number:
 Email:

Project Information

Name:
 Location:
 Nominal Tons/Flow: Ton / gpm

General Requirements

Which GV Model are you interested in

Basic Dual Primary/Secondary Stacked Please Advise

Section 1. Earth Loop & Piping System Details

The purpose of this section is to determine the pressure drop of the geothermal loop field. Generally, the following data will allow us to apply accepted pressure drop equations to estimate the pressure drop. If there is anything unusual in your specific application that needs to be considered to improve the accuracy of our results please note in the comments section. Also this section pertains to the portion of the system that is constructed of HDPE and for the most part is buried (Valved Manifolds and Main Piping are the exceptions). The indoor piping and associated piping material is handled in Section 2.

Loops

of Groups # of Loops per Group Total Number of Loops
 Loop Length (Total Pipe) Loop Pipe Diameter Loop Pipe DR

Reverse/Return Manifold (Rev/Ret)

Length of Single Rev/Ret Manifold Feet Spacing between taps Feet

Supply/Return Piping (S/R)

Length of longest (one way) S/R Pipe Diameter S/R Pipe DR

Valved Manifold

Balance Valves Yes No Cv (if yes)

Main Piping (from Valved Manifold to Pump plus from HP Returns to Valved Manifold)

Total Length Diameter Main Pipe DR
 Antifreeze Type Antifreeze Concentration %

Comments

Section 2. Interior Piping & Heat Pump Circuit Details

This section attempts to identify and determine the "worst case" interior pressure drop circuit, which is a combination of interior distribution piping, heat pump circuit piping, valving/hardware (ie. balance valves, strainers, hoses, etc.) and the specific characteristic of the heat pump. We encourage the use of HDPE for interior piping, but please indicate by size what material you will be using.

Interior Piping

Material (Please describe by size ex. 3/4-2" Copper, 3"+ Steel)

Distribution (Please describe distribution piping strategy ex. Home Run Circuits from Mechanical Room or Reverse Return routed through building—Include drawing if difficult to describe)

Heat Pump & Circuit Piping Information (use page 2 if necessary) Heat Pump Manufacturer

Tag	Model #	HP Pressure Drop gpm	FOH	Length	Size	Balance Valve Cv	Strainer Cv	2 Way Valve Cv	Length & Size of Hose Length	Size



GV Design Input Sheet



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Heat Pump & Circuit Piping Information (continued)

Tag	Model #	HP Pressure Drop		Length	Size	Balance Valve Cv	Strainer Cv	2 Way Valve Cv	Length & Size of Hose	
		gpm	FOH						Length	Size

I/we acknowledge that this information is provided for the purpose of soliciting a recommendation from Phoenix Energy Supply on the appropriate GV Flow Center selection for this project and in no way implies that Phoenix Energy Supply assumes any system design responsibility.

Name _____ Date _____