

## Project Information

Project #: 1  
 Name:  
 Location:

Notes:

## Supply Summary

Name	Temp	Total Fluid Vol	Total Flow	Head Loss <sup>1</sup>	Load <sup>2</sup>	# Circuits	# Zones
Water Temperature	27	104.3	20.93	25.5	2,820	12	2

(1) Head loss includes manifolds, circuits, and supply/return piping if specified, may also contain control valve losses. (2) Load includes all panel back losses.

## Manifold Summary

Manifold Name	Circuits	Flowrate	Required Temp.	Supplied Temp.	Manifold Type	S/R Length <sup>1</sup>	S/R Pipe	Manifold Head Loss	Circuit Head Loss	S/R Head Loss	Total Head Loss <sup>2</sup>
Manifold 1	6	11.36	27	27	Stainless Steel	-	-	3.1	22.4	0.0	25.5
Manifold 2	6	9.57	27	27	Stainless Steel	-	-	1.7	12.6	0.0	14.4
Total	12	20.93	-	-	-	-	-	3.1	22.4	0.0	25.5

(1) S/R Length = one way, (2) Total Head loss includes manifold, circuits and supply/return piping if specified.

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**Water Temperature ( 27 °C )**

**Manifold 1 ( 27 °C, Stainless Steel, 6 Circuits )**

Circuit	Rooms Served	Total Length	Tube Spacing	Area Covered	Tubing	Flowrate	Head Loss <sup>1</sup>	Temp Drop <sup>2</sup>	Load <sup>3</sup>	Actuator
A-1	Living Room	78.3	250	19.7	PEX-AL-PEX 16mm	1.95	10.6	2.0	264	No
A-2	Living Room	74.5	250	19.1	PEX-AL-PEX 16mm	1.89	9.6	2.0	256	No
A-3	Living Room	80.4	250	20.1	PEX-AL-PEX 16mm	1.99	11.3	2.0	276	No
A-4	Master Bedroom,Garderobe	81.0	200	18.8	PEX-AL-PEX 16mm	2.93	22.4	2.0	381	No
A-5	Master Bathroom	73.0	100	7.6	PEX-AL-PEX 16mm	1.43	5.8	2.0	193	No
A-6	Hallway	75.9		11.0	PEX-AL-PEX 16mm	1.17	4.2	2.0	162	No
Total	-	463.1		96.3	-	11.36	22.4	-	1,533	0

(1) Head loss for circuit tubing only. (2) Design Temp Drop (Estimated Actual Drop). (3) Required load. Includes panel back losses. Does not reflect maximum capacity of the circuit.

**Manifold 2 ( 27 °C, Stainless Steel, 6 Circuits )**

Circuit	Rooms Served	Total Length	Tube Spacing	Area Covered	Tubing	Flowrate	Head Loss <sup>1</sup>	Temp Drop <sup>2</sup>	Load <sup>3</sup>	Actuator
B-1	Office	79.1	100	9.3	PEX-AL-PEX 16mm	1.27	5.0	2.0	166	No
B-2	Bathroom	76.2	100	8.9	PEX-AL-PEX 16mm	1.39	5.7	2.0	190	No
B-3	Bedroom 2	75.5	200	16.7	PEX-AL-PEX 16mm	2.19	12.6	2.0	304	No
B-4	Bedroom 3	75.5	200	15.1	PEX-AL-PEX 16mm	1.49	6.4	2.0	209	No
B-5	Bedroom 4	77.0	200	16.0	PEX-AL-PEX 16mm	2.17	12.6	2.0	295	No
B-6	Garderobe,Hallway	75.7		10.8	PEX-AL-PEX 16mm	1.05	3.5	2.0	125	No
Total	-	458.9		76.8	-	9.57	12.6	-	1,287	0

(1) Head loss for circuit tubing only. (2) Design Temp Drop (Estimated Actual Drop). (3) Required load. Includes panel back losses. Does not reflect maximum capacity of the circuit.

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Cold weather humidification, or some lifestyles that produce excessive moisture, may cause condensation to occur if the absolute humidity of the indoor air is too high for the momentary circumstances. Condensation can occur on surfaces or concealed within the structure, and can lead to mold, mildew, frost damage, and moisture damage. The software does not perform calculations for the estimation or detection of possible condensation problems, and it is the designers (i.e. software users) responsibility to do so independently if required.

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