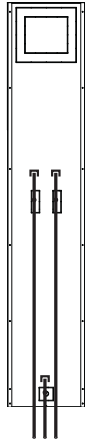


Vertical Stack Water Source Heat Pumps

Riser Configurations



All risers capped at cabinet run-outs

- System piping is bottom supply and return.



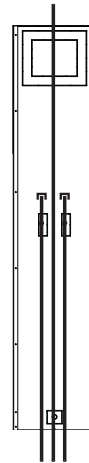
All risers open at top

- Bottom supply and return piping for supplying water to other units.
- Bottom supply and return piping for drain vent to roof, flushing crossover.
- Top supply and return piping.



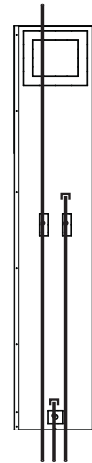
Supply and return open, drain capped at cabinet run-out

- Bottom supply and return piping with open top for venting or flushing crossover.
- Top supply and return.



Capped supply and return, drain open at top

- Bottom supply and return piping with open drain riser for venting to roof or picking up drain from other equipment above.

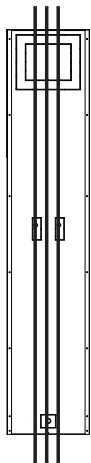


Supply or return open at top, others capped at cabinet run-out

- Bottom supply and top return piping.
- Top supply and bottom return piping.

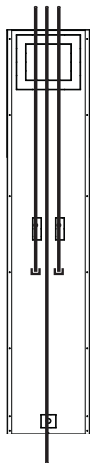
Symbols

- ▬ Riser piping is left open from factory
- ⌋ Riser piping is capped from factory



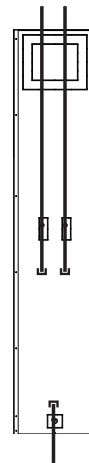
All riser through slab at bottom

- Bottom supply and return.
- Top supply and return feeding other equipment above.



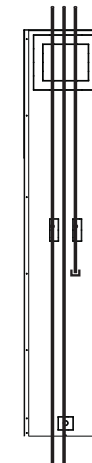
Supply and return capped at cabinet run-out, drain through slab

- Top supply and return
- Supply & return mains above these units on "between-floors" main piping.



All risers capped at cabinet run-out, drain through slab

- Isolated unit top supply and return from adjacent riser with separate drain.
- Check riser venting.



Supply or return capped at cabinet run-out, other risers extend through slab

- Bottom supply, top return piping.
- Bottom return, top supply piping.

Note:

- All configurations shown are rear view with risers on back of cabinet

Contractor _____

Architect _____

Engineer _____

Representative _____

Location _____

zehnder Rittling

BUFFALO, NY USA

TITLE

ZR_VSWSHP_RiserConfig

DRAWING NUMBER

April 16, 2012