

2.4 Maximum length of collectors

Caution

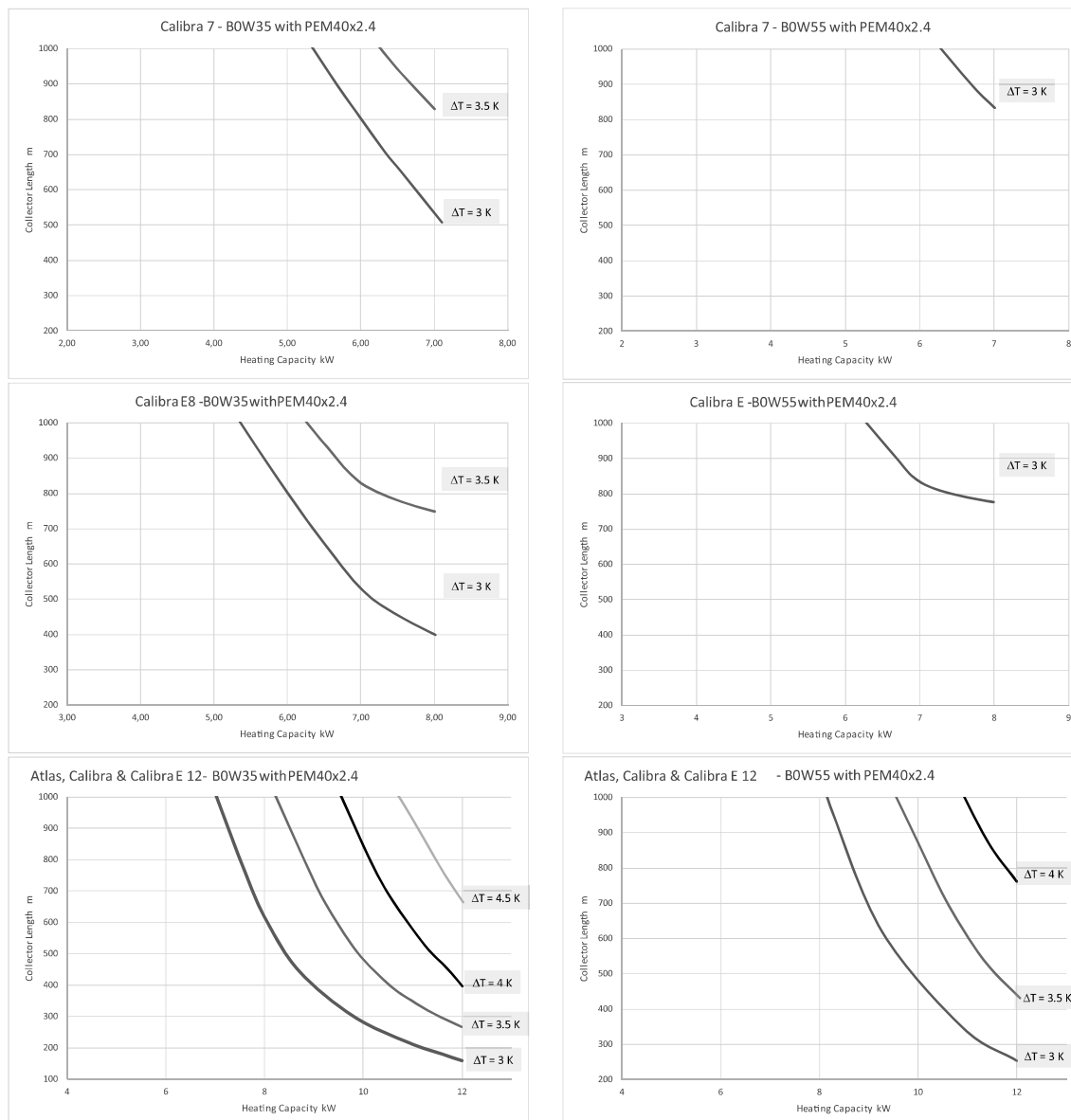


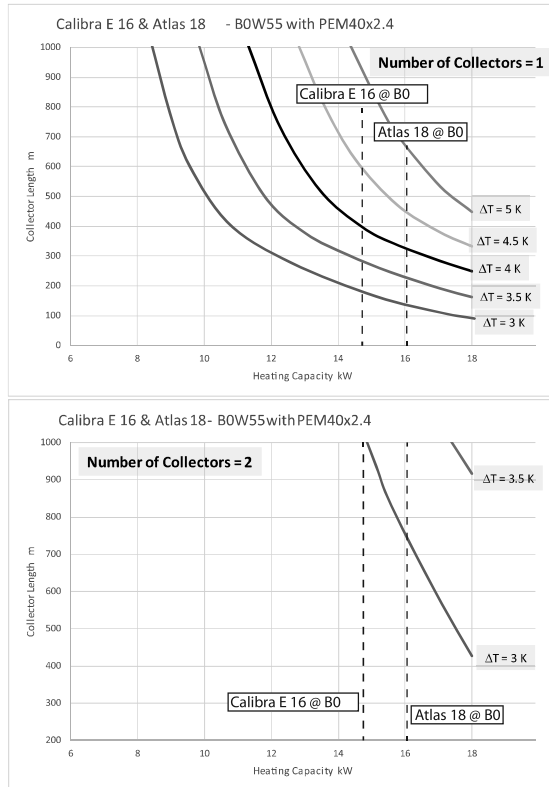
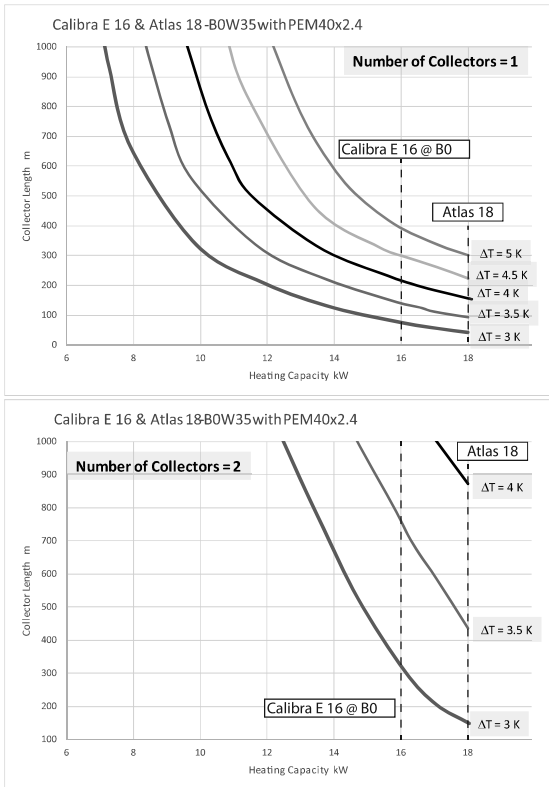
The collector length must be designed for energy extracted from the borehole/ground, which is required for the operation of the heat pump.

In the figures below you can see what approximate operating brine ΔT you can achieve according to collector length and heating capacity.

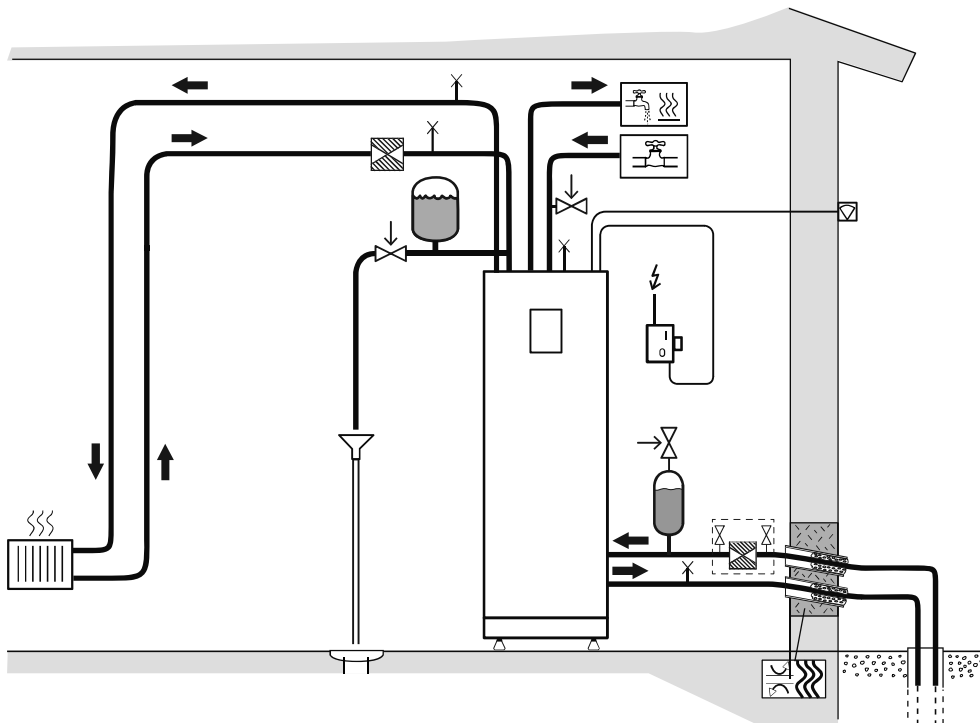
The collector lengths may be applied independently on which heat source is used for the collector circuit (vertical/horizontal). In most applications a ΔT 3-5^o K is desired for most efficient running.

The lengths of the collectors are based on ethanol 30% at 0°C. (PEM40)





2.5 Overview image



- Hot water
- Heating system
- Power
- Brine

Cold and hot water pipes and overflow pipes from safety valves must be made of heat resistant and corrosion-resistant material, e.g. copper. The safety valve overflow pipes must have an open connection to the drain and visibly flow into this in a frost-free environment.