

Alternative Heating

& Cooling Ltd.



Mike Cotter

Marine Engineer Ex Cork RTC / CIT

Tel: 028-23701

Web: www.ahac.ie

Sources of heat

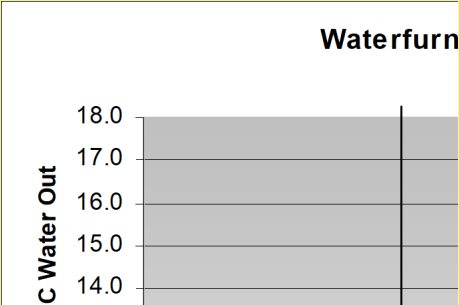
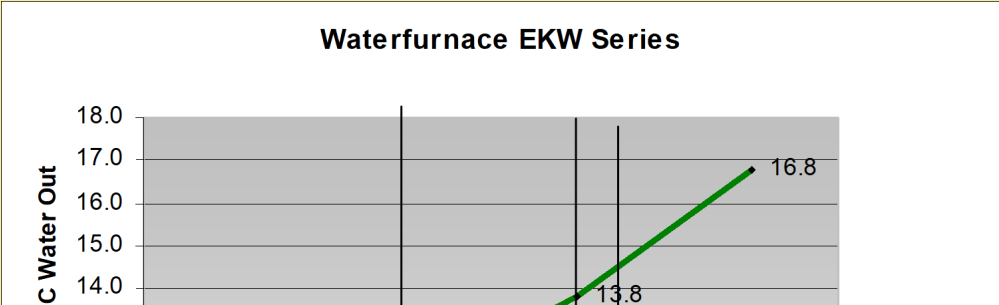
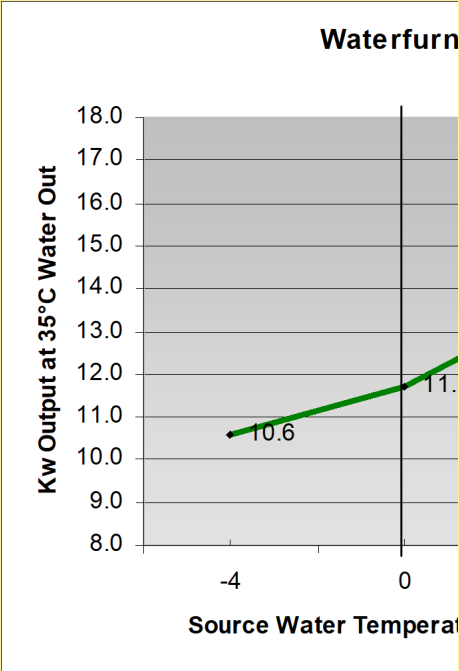
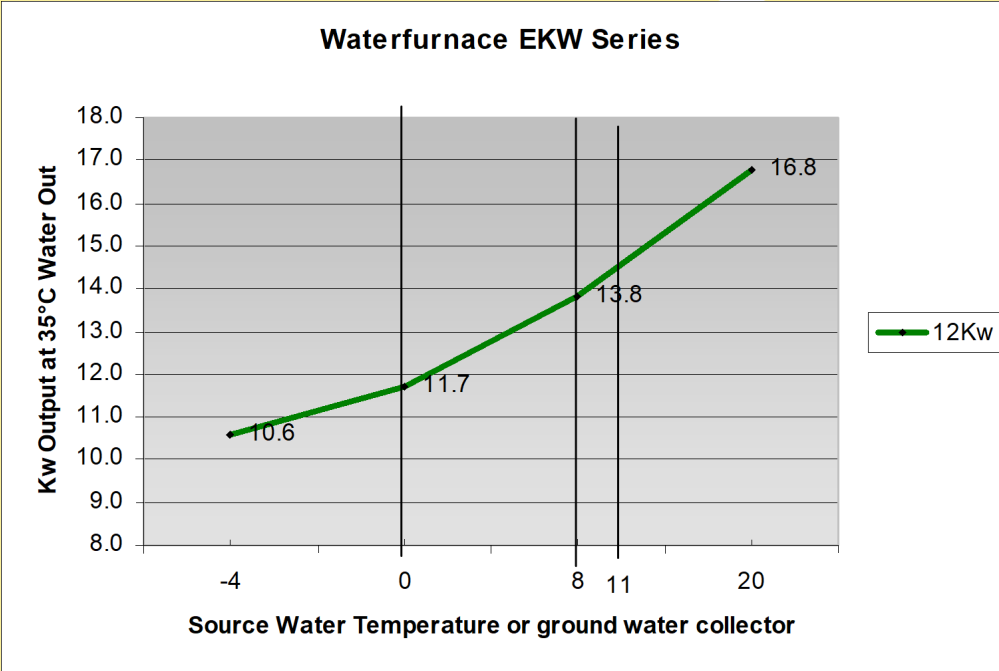


- Ground source (brine / water)
- Water sourced (water / water)
- Heat Recovery (any medium / water)
- “Geothermal” (Hot water, Mallow?)

- Air basically (Air to water)

No planning is required for any of the above unless!

12 kw Performance Chart



Delivery of heat



$$KW = L/sec * 4.196 * \Delta T$$

- Any low temperature device or medium
- Underfloor
- Radiators (Al or Other)
- Forced air (fan assist rads /fan coils)
- Hot water production and Legionella.

- Which is more efficient a heat pump running at 40 degree C into underfloor or into a radiator.



Spice of life



Alternative Heating

& Cooling Ltd.



Mike Cotter

Tel: 028-23701

Web: www.ahac.ie