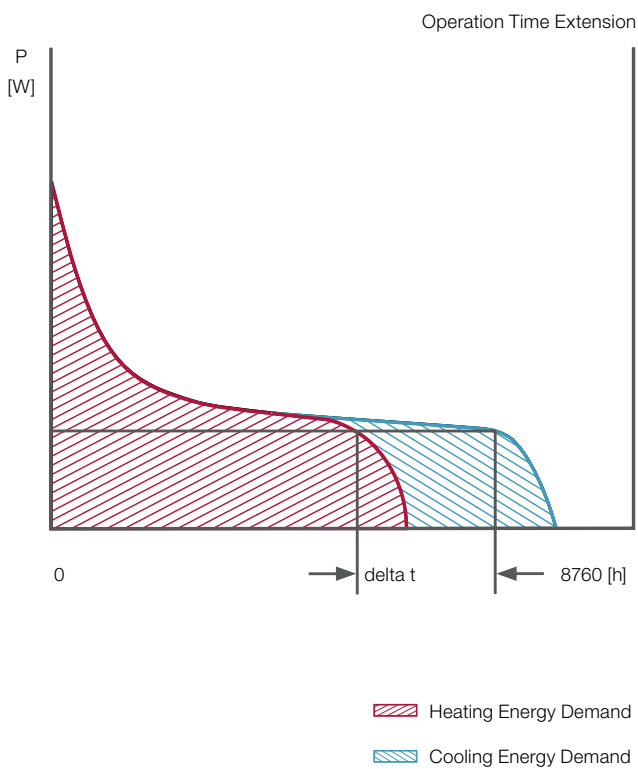


CHPC – Combined Heat, Power and Cold Generation

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The combined heat, power and cold generation can be described as an extended heat and power generation system (CHP):
Generation of energy, heat and cold.



Why combined heat-power-cold-generation?

Advanced efficiency due to

- Longer operating-times of CHP-machines
- Increased energy production
- Reduction of emergency cooling of CHP-systems

Advantages compared to electrically driven compression cooling technology:

- Reduction of electricity and operating costs for the generation of cold
- Saving of expensive electricity costs
- Reduction of CO₂ – emissions by reducing the use of primary energy
- Reduction of global warming potential (GWP) by using environmentally friendly, natural refrigerants

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Possible areas of application of combined heat-power-cold generation:

Air-conditioning of buildings:

- Public institutions
- Shopping malls
- Hospitals
- Administration buildings
- Banks
- Hotels
- Office buildings
- Residential homes

Process cooling:

- Pharmaceutical industry
- Electrical industry
- Printing- and media-industry
- Food industry
- Agriculture
 - Milk cooling
 - Piggery cooling

Example for hydraulic integration:

