Manglende koefficienter

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| **Navn** | **Kommentar** | **Komponent** | **Koefficent Value** | **Found where** |
| Fp(theta) |  | Exp valve |  |  |
| C | Discharge coefficient | Exp valve | 20/2)^2)\*pi \* 10^-6 | Kresten sim |
| A | Cross sectional area | Exp valve | 0.64 | Kresten sim |
| V1 | Cylinder internal vol. Before stroke | Compressor | 50cm^3 | Info ved møde 07/04 |
| Vc | Cylinder clearance vol. after stroke | Compressor | 0.05\*50cm^3 | Info ved møde 07/04 |
| Gamma | Ratio Specific heat capacity  Constant pressure/volume | Compressor | 1,2 | Freon datasheet ved 500kPa 20degC |
| Kl1, Kl2 | Valve loss constant | Compressor | Se cpr1\_a.m |  |
| Mm | Metal mass | Condenser | 22.976 kg |  |
| Cpm | Specific heat capacity  Metal | Condenser | 387 [J/(kg\*K)] | Kobber |
| λ | Pressure drop constant | Condenser | 0.1 | Kresten sim  Kaldes der “pressure loss coefficient” I condenser blok??? |
| Vi | Condenser internal volume | Condenser | 0.5m^3  500 liter | Kresten sim, condenser block.  Sanity check: lyder ALT for stort, når evap er 12 liter |
| UArm | Heat transfer coef. Refrid-metal | Condenser | 1500 | Kresten PHD  Er dette ok? |
| UAma | Heat transfer coef. Metal-air | Condenser | 650 | Kresten PHD  Er dette ok? |
| Cp\_air | Specific heat capacity of air | Evaporator | 1005 | Online opslag |
| M\_m | Heat exchanger metal mass | Evaporator | 30 kg | aluminium |
| Cp\_m | Specific heat capacity of metal | Evaporator | 900 [J/(kg\*K)] |  |
| UA\_1 | Metal to liquid refrigerant heat transfer coefficient | Evaporator | 3510 | Kresten PHD  Er dette ok? Ja |
| UA\_2 | Metal to vapor refrigerant heat transfer coefficient | Evaporator | 1930 | Kresten PHD  Er dette ok? Ja |
| UA\_3 | Liquid-vapor CV metal to vapor CV metal heat transfer coefficient | Evaporator | 50 | Kresten PHD  Er dette ok? Ja |
| V\_i | Total volume of evaporator | Evaporator | 11.9 liter | Fundet via evapo rør diameter ved sim |
| v\_eva | Specific volume of refridge | Evaporator | CoolProp |  |
| M\_box | Mass of box aluminum | Box | 500 kg? |  |
| Cp\_box | Specific heat capacity of aluminum | Box | 890 J/kg\*K |  |
| M\_cargo | Mass of intended cargo | Box | 1000 kg | Kresten sim |
| Cp\_cargo | Specific heat capacity of cargo | Box | 447 J/kg\*K | Kresten sim |
| UA\_amb | Ambient to box heat transfer coefficient | Box | UA\_amb og UA\_ba skal til sammen give 50 W/K |  |
| UA\_ba | Box to air heat transfer coefficient | Box |  |  |
| UA\_ca | Cargo to air heat transfer coefficient | Box | 20 | Kresten sim |