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In[1]:= Quiet@Remove["Global`*"];
$HistoryLength = 2;
SetDirectory[NotebookDirectory[]];

In[4]:= m1 = 1.5;
T1 = 400;
T3 = 20;
c1 = 1000;
c2 = c1;
ClearAll[vydej1];
vydej1[{kS_, m2_}] :=
Module[{rceSpolecne, T2, T4, Δ1, Δ2, Qin, rceLin, rceLog, dospoc, proms, sol},
  Δ1 = T1 - T4;
  Δ2 = T2 - T3;

  rceSpolecne = {Qin == m1 * c1 * (T1 - T2),
    Qin == m2 * c2 * (T4 - T3)};

  };

  rceLin = Union[rceSpolecne, {Qin == kS *  $\frac{\Delta 1 + \Delta 2}{2}$ }];

  rceLog = Union[rceSpolecne, {Qin == kS *  $\frac{\Delta 1 - \Delta 2}{\text{Log}[\frac{\Delta 1}{\Delta 2}]}$ }];

  dospoc = Solve[rceLin][[1]];
  proms = First /@ dospoc;
  sol = Chop[Quiet@FindRoot[rceLog, Thread[{proms, (proms /. dospoc)}]]];
  {Qin, T2, T4} /. sol
];

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In[11]:= mmin = 0.05 m1;
mmax = 100 m1;
nEmek = 100;

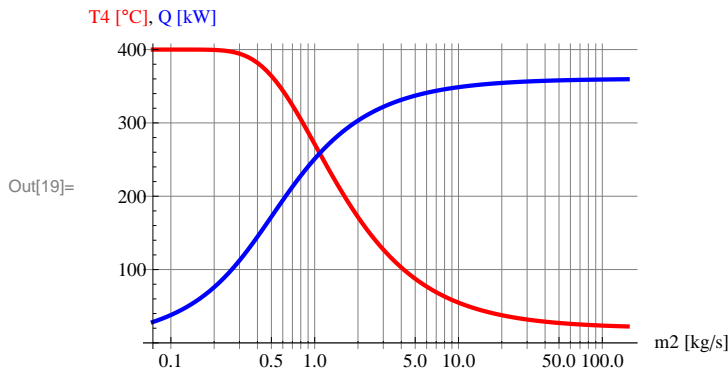
$$q = \sqrt[nEmek]{\frac{mmax}{mmin}};$$

emka = mmin * q#-1 & /@ (rn = Range[nEmek + 1]);
data = {#, vydej1[{1500, #}]} & /@ emka;
pl1 = ListLogLinearPlot[data /. {m2_, {Qin_, T2_, T4_}} :> {m2, T4},
  Joined -> True, AxesLabel -> {"m2 [kg/s]", "T4 [°C]", "Q [kW]"},
  PlotStyle -> {Red, Thick}, GridLines -> Automatic];

pl2 = ListLogLinearPlot[data /. {m2_, {Qin_, T2_, T4_}} :> {m2,  $\frac{Qin}{1000}$ },
  Joined -> True, PlotStyle -> {Blue, Thick}, GridLines -> Automatic];

Show[
  pl1,
  pl2]

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In[20]:= ListPlot[data /. {m2_, {Qin_, T2_, T4_}} :> {T4,  $\frac{Qin}{1000}$ }, Joined -> True,
  PlotStyle -> {Black, Thick}, GridLines -> Automatic, AxesLabel -> {"T4 [°C]", "Q [kW]"}]

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