

```

to=5
tc=50
psat_e717=pressure(R717; T=to; X=1)
volesp_717=volume(R717; T=to+10; p=psat_e717)
h2_717=enthalpy(R717; T=to+10; p=psat_e717)
s2_717=entropy(R717; T=to+10; p=psat_e717)
psat_c717=pressure(R717; T=tc; X=1)
s3_717=s2_717
{R717 compresor de pistones abierto/modelo W4PA}
{límites de aplicación: temp.evap de -24,7 a 15 ; temp. cond de 20 a 55}

```

```

Q_e717= l1 + l2*to + l3*tc + l4*to^2 + l5*to*tc + l6*tc^2 + l7*to^3 + l8*tc*to^2 + l9*to*tc^2 + l10*tc^3
W_c717 = m1 + m2*to + m3*tc + m4*to^2 + m5*to*tc + m6*tc^2 + m7*to^3 + m8*tc*to^2 + m9*to*tc^2 + m10*tc^3
m_717 = n1 + n2*to + n3*tc + n4*to^2 + n5*to*tc + n6*tc^2 + n7*to^3 + n8*tc*to^2 + n9*to*tc^2 + n10*tc^3

```

```
COP_717=Q_e717/W_c717
```

```
eta_717=vol_717/47,14
```

```
vol_717=volesp_717*m_717
```

```
etaisen_717=(Wisen_717*1000)/W_c717
```

```
h3_717=enthalpy(R717; p=psat_c717; s=s3_717)
Wisen_717=m_717*(1/3600)*(h3_717-h2_717)

```

```
efin_717=Q_e717/(1000*47,14)
```

```
{potencia frigorífica}
```

```

l1=46762,1583986028
l2=1821,03221400806
l3=-18,8041257057461
l4=26,606511948412
l5=1,59942608705714
l6=-2,93430871920091
l7=0,166608415848622
l8=-0,0247158913508966
l9=-0,0495171978270391
l10=-0,00919526948230459

```

```
{potencia del compresor}
```

```

m1=5951,27316228087
m2=-32,1266548691071
m3=-192,559381188048
m4=-2,50860870531543
m5=-2,91097696630136
m6=10,5638570944612
m7=0,00372423590100036
m8=-0,0098933025061974
m9=0,143131692829612
m10=-0,0949833417810222

```

```
{caudal másico}
```

```

n1=131,789212561977
n2=4,9779456488705
n3=0,332540782214728
n4=0,0699819232574877
n5=0,0217678815781332
n6=-0,0036134957211882
n7=0,000481086666564705
n8=0,000222472958218435
n9=-0,0000396182177926988
n10=-0,0000900040918781623

```

```

psat_e1341=pressure(R134a; T=to; X=1)
volesp_1341=volume(R134a; T=to+10; p=psat_e1341)
h2_1341=enthalpy(R134a; T=to+10; p=psat_e1341)
s2_1341=entropy(R134a; T=to+10; p=psat_e1341)

```

psat_c1341=pressure(R134a; T=tc; X=1)
s3_1341=s2_1341

{R134a compresor de pistones semihermético modelo 6JE-25Y-40P}

Q_e1341= a1 + a2*to + a3*tc + a4*to^2 + a5*to*tc + a6*tc^2 + a7*to^3 + a8*tc*to^2 + a9*to*tc^2 + a10*tc^3
W_c1341 = b1 + b2*to + b3*tc + b4*to^2 + b5*to*tc + b6*tc^2 + b7*to^3 + b8*tc*to^2 + b9*to*tc^2 + b10*tc^3
m_1341 = c1 + c2*to + c3*tc + c4*to^2 + c5*to*tc + c6*tc^2 + c7*to^3 + c8*tc*to^2 + c9*to*tc^2 + c10*tc^3

COP_1341=Q_e1341/W_c1341

eta_1341=vol_1341/95,3

vol_1341=volesp_1341*m_1341

etaisen_1341=(Wisen_1341*1000)/W_c1341

h3_1341=enthalpy(R134a; p=psat_c1341; s=s3_1341)
Wisen_1341=m_1341*(1/3600)*(h3_1341-h2_1341)

efin_1341=Q_e1341/(1000*84,5)

{potencia frigorífica}

a1=73781,7297056427
a2=3022,84877837224
a3=-581,688172978251
a4=45,5260012115441
a5=-22,9807127729845
a6=-2,35057851337799
a7=0,221604460226518
a8=-0,330672058302229
a9=-0,0308953390643262
a10=0,0137271998618939

{potencia del compresor}

b1=2977,73016981441
b2=-212,129068558622
b3=314,804350119741
b4=-6,55567549668349
b5=11,1439833895159
b6=-1,57527017145592
b7=-0,0486127384759189
b8=0,0831976935623716
b9=-0,0316774524389877
b10=-0,00381990880499682

{caudal másico}

c1=1274,20271671822
c2=54,1362254063333
c3=-1,33557950193584
c4=0,940697317292721
c5=-0,0287107732443204
c6=-0,0482764764197325
c7=0,00714168518764964
c8=-0,00142305156033999
c9=-0,00114163616415378
c10=-0,0000496180576541013

psat_e1342=pressure(R134a; T=to; X=1)
volesp_1342=volume(R134a; T=to+10; p=psat_e1341)
h2_1342=enthalpy(R134a; T=to+10; p=psat_e1341)
s2_1342=entropy(R134a; T=to+10; p=psat_e1341)
psat_c1342=pressure(R134a; T=tc; X=1)
s3_1342=s2_1342

{R134a compresor de tornillo semihermético modelo HSK5353-35-40P}

Q_e1342= t1 + t2*to + t3*tc + t4*to^2 + t5*to*tc + t6*tc^2 + t7*to^3 + t8*tc*to^2 + t9*to*tc^2 + t10*tc^3
W_c1342 = u1 + u2*to + u3*tc + u4*to^2 + u5*to*tc + u6*tc^2 + u7*to^3 + u8*tc*to^2 + u9*to*tc^2 + u10*tc^3

$$m_{1342} = v1 + v2*to + v3*tc + v4*to^2 + v5*to*tc + v6*tc^2 + v7*to^3 + v8*tc*to^2 + v9*to*tc^2 + v10*tc^3$$

$$COP_{1342} = Q_{e1342} / W_{c1342}$$

$$\eta_{1342} = vol_{1342} / 100$$

$$vol_{1342} = volesp_{1342} * m_{1342}$$

$$\eta_{isen_{1342}} = (W_{isen_{1342}} * 1000) / W_{c1342}$$

$$h3_{1342} = \text{enthalpy}(R134a; p=psat_{c1342}; s=s3_{1342})$$

$$W_{isen_{1342}} = m_{1342} * (1/3600) * (h3_{1342} - h2_{1342})$$

$$e_{fin_{1342}} = Q_{e1342} / (1000 * 84,5)$$

{potencia frigorífica}

$$t1 = 77191,5232979404$$

$$t2 = 3105,69573352126$$

$$t3 = -537,148893582027$$

$$t4 = 49,2746579917453$$

$$t5 = -21,819451550485$$

$$t6 = -2,14247453919066$$

$$t7 = 0,275469730601342$$

$$t8 = -0,351877758840202$$

$$t9 = -0,0264851374869426$$

$$t10 = 0,00918473619211059$$

{potencia del compresor}

$$u1 = 8873,45969284493$$

$$u2 = 124,962955705662$$

$$u3 = 123,794616773773$$

$$u4 = -0,478082157862035$$

$$u5 = 0,734700703358605$$

$$u6 = -1,05997698780927$$

$$u7 = -0,021826614844338$$

$$u8 = 0,0587545186265274$$

$$u9 = -0,0318868408729648$$

$$u10 = 0,048926921272702$$

{caudal másico}

$$v1 = 1321,12755944752$$

$$v2 = 48,6744110047405$$

$$v3 = 0,705525592596769$$

$$v4 = 0,704344669268752$$

$$v5 = -0,0134587357370126$$

$$v6 = -0,058787951740528$$

$$v7 = 0,00445509710805014$$

$$v8 = -0,00143832371515227$$

$$v9 = -0,000724037900197707$$

$$v10 = 0,000154093879738622$$

$$psat_{e4101} = \text{pressure}(R410A; T=to; X=1)$$

$$volesp_{4101} = \text{volume}(R410A; T=to+10; p=psat_{e4101})$$

$$h2_{4101} = \text{enthalpy}(R410A; T=to+10; p=psat_{e4101})$$

$$s2_{4101} = \text{entropy}(R410A; T=to+10; p=psat_{e4101})$$

$$psat_{c4101} = \text{pressure}(R410A; T=tc; X=1)$$

$$s3_{4101} = s2_{4101}$$

{R410a compresor de pistones semihermético modelo 4NDC-20Y-40P}

$$Q_{e4101} = f1 + f2*to + f3*tc + f4*to^2 + f5*to*tc + f6*tc^2 + f7*to^3 + f8*tc*to^2 + f9*to*tc^2 + f10*tc^3$$

$$W_{c4101} = g1 + g2*to + g3*tc + g4*to^2 + g5*to*tc + g6*tc^2 + g7*to^3 + g8*tc*to^2 + g9*to*tc^2 + g10*tc^3$$

$$m_{4101} = h1 + h2*to + h3*tc + h4*to^2 + h5*to*tc + h6*tc^2 + h7*to^3 + h8*tc*to^2 + h9*to*tc^2 + h10*tc^3$$

$$COP_{4101} = Q_{e4101} / W_{c4101}$$

eta_4101=vol_4101/46,9

vol_4101=volesp_4101*m_4101

etaisen_4101=(Wisen_4101*1000)/W_c4101

h3_4101=enthalpy(R410a; p=psat_c4101; s=s3_4101)

Wisen_4101=m_4101*(1/3600)*(h3_4101-h2_4101)

efin_4101=Q_e4101/(1000*77,2)

{potencia frigorífica}

f1=81784,5694516094

f2=2866,52007134595

f3=-555,482220215492

f4=38,7834798832173

f5=-17,8493261663892

f6=-5,99160879599299

f7=0,169881572592161

f8=-0,289961797026494

f9=-0,108090396564785

f10=0,0297875750592262

{potencia del compresor}

g1=3516,66677653997

g2=-267,407961371687

g3=341,045543428012

g4=-7,12875283388608

g5=11,5657563964856

g6=-1,27760145355688

g7=-0,0406115124577573

g8=0,0829300342037209

g9=-0,0274387596903676

g10=-0,00570732121672413

{caudal másico}

h1=1250,38464391949

h2=42,4533267901055

h3=1,76619177603496

h4=0,566434004214858

h5=0,00216414362393873

h6=-0,151607920533763

h7=0,00316283524152469

h8=-0,00118293693018568

h9=-0,00129897064080819

h10=0,000734368291703847

psat_e4102=pressure(R410A; T=to; X=1)

volesp_4102=volume(R410A; T=to+10; p=psat_e4102)

h2_4102=enthalpy(R410A; T=to+10; p=psat_e4102)

s2_4102=entropy(R410A; T=to+10; p=psat_e4102)

psat_c4102=pressure(R410A; T=tc; X=1)

s3_4102=s2_4102

{R410a compresor Scroll GSD80235VA 4}

Q_e4102 = p1 + p2*to + p3*tc + p4*to^2 + p5*to*tc + p6*tc^2 + p7*to^3 + p8*tc*to^2 + p9*to*tc^2 + p10*tc^3

W_c4102 = q1 + q2*to + q3*tc + q4*to^2 + q5*to*tc + q6*tc^2 + q7*to^3 + q8*tc*to^2 + q9*to*tc^2 + q10*tc^3

m_4102 = r1 + r2*to + r3*tc + r4*to^2 + r5*to*tc + r6*tc^2 + r7*to^3 + r8*tc*to^2 + r9*to*tc^2 + r10*tc^3

COP_4102=Q_e4102/W_c4102

eta_4102=vol_4102/38,6

vol_4102=volesp_4102*m_4102

$$\text{etaisen_4102} = (\text{Wisen_4102} * 1000) / W_c4102$$

$$\text{h3_4102} = \text{enthalpy}(\text{R410a}; p = \text{psat_c4102}; s = s3_4102)$$

$$\text{Wisen_4102} = m_4102 * (1/3600) * (\text{h3_4102} - \text{h2_4102})$$

$$\text{efin_4102} = Q_e4102 / (1000 * 77,2)$$

{potencia frigorífica}

$$\begin{aligned} p1 &= 83408,4026880446 \\ p2 &= 3537,54426429917 \\ p3 &= -1410,72988941327 \\ p4 &= 55,4426286217877 \\ p5 &= -66,3820665285792 \\ p6 &= 23,9926964436374 \\ p7 &= 0,181923640494231 \\ p8 &= -0,872415391260715 \\ p9 &= 0,536621763344907 \\ p10 &= -0,231952949862677 \end{aligned}$$

{potencia del compresor}

$$\begin{aligned} q1 &= 3620,5955001131 \\ q2 &= 45,7877713958709 \\ q3 &= 257,043850686321 \\ q4 &= 0,689834288117274 \\ q5 &= -3,42922395221592 \\ q6 &= -2,18867195396634 \\ q7 &= -0,00189972422550551 \\ q8 &= -0,0364445292953213 \\ q9 &= 0,0411775242884816 \\ q10 &= 0,0523908890186154 \end{aligned}$$

{caudal másico}

$$\begin{aligned} r1 &= 1362,96337579259 \\ r2 &= 61,8468828799703 \\ r3 &= -20,4477437381535 \\ r4 &= 0,993985786202596 \\ r5 &= -1,27032086389481 \\ r6 &= 0,54707854933704 \\ r7 &= 0,00380698332071679 \\ r8 &= -0,0155757209458401 \\ r9 &= 0,0150628292917186 \\ r10 &= -0,00504729834461618 \end{aligned}$$

{R744 compresor de pistones semiherméticos/modelo 4FTC-30K-40P}

{límites de aplicación: 73,8 a 140 bar / -20 a 20 celsius}

{to=5}

{tc=50}

$$\begin{aligned} \text{psat_e744} &= \text{pressure}(\text{R744}; T = \text{to}; X = 1) \\ \text{volesp_744} &= \text{volume}(\text{R744}; T = \text{to} + 10; p = \text{psat_e744}) \\ \text{h2_744} &= \text{enthalpy}(\text{R744}; T = \text{to} + 10; p = \text{psat_e744}) \\ \text{s2_744} &= \text{entropy}(\text{R744}; T = \text{to} + 10; p = \text{psat_e744}) \\ p_HP744 &= 98,7 \\ s3_744 &= s2_744 \end{aligned}$$

{p_HP744=1+2,44*tc}

$$\begin{aligned} Q_e744 &= w1 + w2 * \text{to} + w3 * p_HP744 + w4 * \text{to}^2 + w5 * \text{to} * p_HP744 + w6 * p_HP744^2 + w7 * \text{to}^3 + w8 * p_HP744 * \text{to}^2 + w9 * \\ &\quad \text{to} * p_HP744^2 + w10 * p_HP744^3 \\ W_c744 &= k1 + k2 * \text{to} + k3 * p_HP744 + k4 * \text{to}^2 + k5 * \text{to} * p_HP744 + k6 * p_HP744^2 + k7 * \text{to}^3 + k8 * p_HP744 * \text{to}^2 + k9 * \text{to} * \\ &\quad p_HP744^2 + k10 * p_HP744^3 \\ m_744 &= z1 + z2 * \text{to} + z3 * p_HP744 + z4 * \text{to}^2 + z5 * \text{to} * p_HP744 + z6 * p_HP744^2 + z7 * \text{to}^3 + z8 * p_HP744 * \text{to}^2 + z9 * \text{to} * \\ &\quad p_HP744^2 + z10 * p_HP744^3 \end{aligned}$$

$$\text{COP_744} = Q_e744 / W_c744$$

$$\text{eta_744} = \text{vol_744} / 17,8$$

$$\text{vol_744} = \text{volesp_744} * m_744$$

$$\text{etaisen_744} = (\text{Wisen_744} * 1000) / W_c744$$

$$h3_744 = \text{enthalpy}(R744; p = p_HP744; s = s3_744)$$

$$\text{Wisen_744} = m_744 * (1/3600) * (h3_744 - h2_744)$$

$$\text{efin_744} = Q_e744 / (1000 * 4,3)$$

{Potencia frigorífica}

$w1 = -612355,592666879$
 $w2 = -11158,2106466126$
 $w3 = 16018,0659438277$
 $w4 = -72,7037510597427$
 $w5 = 225,666529348905$
 $w6 = -128,973325534918$
 $w7 = -0,181400302789252$
 $w8 = 0,90703029295759$
 $w9 = -0,978823261316559$
 $w10 = 0,345356361045351$

{Potencia de compresión}

$k1 = -13643,2838676621$
 $k2 = -666,71084263225$
 $k3 = 614,326171269391$
 $k4 = -8,53075194384591$
 $k5 = 8,94204364536802$
 $k6 = -3,13325231781031$
 $k7 = -0,0329049656198738$
 $k8 = 0,020711235875344$
 $k9 = -0,0140322039396475$
 $k10 = 0,0072009200972959$

{caudal másico}

$z1 = 1713,48733596902$
 $z2 = 54,0808960372607$
 $z3 = -5,29454016123849$
 $z4 = 0,840835839018917$
 $z5 = -0,0807109925317144$
 $z6 = 0,00500979706160117$
 $z7 = 0,0105143499388965$
 $z8 = -0,000564872336943745$
 $z9 = -0,0000151735186032934$
 $z10 = 0,0000115106650003764$

Parametric Table: COP_30

	to	tc	COP ₇₁₇	COP ₁₃₄	COP ₄₁₀
Run 1	-20	30	2,74	2,434	2,578
Run 2	-16,67	30	3,133	2,739	2,949
Run 3	-13,33	30	3,575	3,075	3,355
Run 4	-10	30	4,078	3,447	3,801
Run 5	-6,667	30	4,654	3,859	4,289
Run 6	-3,333	30	5,317	4,315	4,824
Run 7	-4,337E-19	30	6,085	4,817	5,411
Run 8	3,333	30	6,98	5,371	6,055
Run 9	6,667	30	8,031	5,98	6,764
Run 10	10	30	9,274	6,65	7,544

Parametric Table: COP_40

	to	tc	COP ₇₁₇	COP ₁₃₄	COP ₄₁₀
Run 1	-20	40	2,157	1,938	1,782
Run 2	-16,67	40	2,458	2,182	2,059
Run 3	-13,33	40	2,784	2,448	2,36
Run 4	-10	40	3,143	2,74	2,689
Run 5	-6,667	40	3,543	3,06	3,048
Run 6	-3,333	40	3,989	3,412	3,439
Run 7	-4,337E-19	40	4,489	3,799	3,866
Run 8	3,333	40	5,053	4,223	4,331
Run 9	6,667	40	5,691	4,687	4,839
Run 10	10	40	6,414	5,194	5,392

Parametric Table: COP_50

	to	tc	COP ₇₁₇	COP ₁₃₄	COP ₄₁₀
Run 1	-20	50	1,76	1,537	1,172
Run 2	-16,67	50	1,997	1,731	1,366
Run 3	-13,33	50	2,243	1,94	1,578
Run 4	-10	50	2,506	2,167	1,81
Run 5	-6,667	50	2,789	2,416	2,063
Run 6	-3,333	50	3,099	2,688	2,339
Run 7	-4,337E-19	50	3,438	2,986	2,64
Run 8	3,333	50	3,811	3,313	2,969
Run 9	6,667	50	4,222	3,669	3,327
Run 10	10	50	4,676	4,058	3,717

Parametric Table: (Qe/v1) 30

	to	tc	efin ₇₁₇	efin ₁₃₄	efin ₄₁₀
Run 1	-20	30	0,3359	0,2066	0,6844
Run 2	-16,67	30	0,4097	0,2491	0,7849
Run 3	-13,33	30	0,4919	0,2975	0,8961
Run 4	-10	30	0,583	0,3525	1,019
Run 5	-6,667	30	0,684	0,4147	1,154
Run 6	-3,333	30	0,7957	0,4848	1,302
Run 7	-4,337E-19	30	0,9187	0,5633	1,465
Run 8	3,333	30	1,054	0,651	1,644
Run 9	6,667	30	1,202	0,7485	1,839
Run 10	10	30	1,364	0,8564	2,051

Parametric Table: (Qe/v1) 40

	to	tc	efin ₇₁₇	efin ₁₃₄	efin ₄₁₀
Run 1	-20	40	0,2869	0,1736	0,5953
Run 2	-16,67	40	0,3601	0,2122	0,6872
Run 3	-13,33	40	0,4414	0,256	0,7883
Run 4	-10	40	0,5317	0,3059	0,8994
Run 5	-6,667	40	0,6317	0,3623	1,022
Run 6	-3,333	40	0,7422	0,4259	1,156
Run 7	-4,337E-19	40	0,8639	0,4974	1,303
Run 8	3,333	40	0,9978	0,5774	1,464
Run 9	6,667	40	1,145	0,6666	1,64
Run 10	10	40	1,305	0,7655	1,832

Parametric Table: (Qe/v1) 50

	to	tc	efin ₇₁₇	efin ₁₃₄	efin ₄₁₀
Run 1	-20	50	0,225	0,1437	0,4983
Run 2	-16,67	50	0,2968	0,178	0,5786
Run 3	-13,33	50	0,3767	0,217	0,6667
Run 4	-10	50	0,4653	0,2613	0,7634
Run 5	-6,667	50	0,5636	0,3115	0,8697
Run 6	-3,333	50	0,6722	0,3684	0,9866
Run 7	-4,337E-19	50	0,792	0,4325	1,115
Run 8	3,333	50	0,9238	0,5045	1,256
Run 9	6,667	50	1,068	0,585	1,41
Run 10	10	50	1,226	0,6747	1,579

Parametric Table: etavol 30

	to	tc	η_{717}	η_{134}	η_{410}
Run 1	-20	30	0,7062	0,7575	0,9704
Run 2	-16,67	30	0,7475	0,7877	0,9791
Run 3	-13,33	30	0,7821	0,8137	0,9861
Run 4	-10	30	0,8112	0,8366	0,9919
Run 5	-6,667	30	0,8359	0,8571	0,9968
Run 6	-3,333	30	0,857	0,8755	1,001
Run 7	-4,337E-19	30	0,875	0,8921	1,005
Run 8	3,333	30	0,8906	0,9073	1,008
Run 9	6,667	30	0,9039	0,9212	1,011
Run 10	10	30	0,9153	0,9337	1,014

Parametric Table: etavol 40

	to	tc	η_{717}	η_{134}	η_{410}
Run 1	-20	40	0,6308	0,7036	0,9381
Run 2	-16,67	40	0,6862	0,7396	0,9506
Run 3	-13,33	40	0,7327	0,7708	0,9606
Run 4	-10	40	0,772	0,7983	0,969
Run 5	-6,667	40	0,8055	0,8227	0,9761
Run 6	-3,333	40	0,8342	0,8447	0,9823
Run 7	-4,337E-19	40	0,8587	0,8646	0,9877
Run 8	3,333	40	0,8798	0,8826	0,9924
Run 9	6,667	40	0,8979	0,899	0,9964
Run 10	10	40	0,9134	0,9138	0,9998

Parametric Table: etavol 50

	to	tc	η_{717}	η_{134}	η_{410}
Run 1	-20	50	0,5177	0,6528	0,8928
Run 2	-16,67	50	0,5916	0,6939	0,9085
Run 3	-13,33	50	0,6539	0,7296	0,9214
Run 4	-10	50	0,7069	0,7611	0,9323
Run 5	-6,667	50	0,752	0,7892	0,9417
Run 6	-3,333	50	0,7907	0,8144	0,95
Run 7	-4,337E-19	50	0,8239	0,8372	0,9572
Run 8	3,333	50	0,8524	0,8578	0,9636
Run 9	6,667	50	0,877	0,8765	0,9691
Run 10	10	50	0,898	0,8934	0,9739

Parametric Table: etaisen_30

	to	tc	etaisen ₇₁₇	etaisen ₁₃₄	etaisen ₄₁₀
Run 1	-20	30	0,6834	0,6157	0,6852
Run 2	-16,67	30	0,7086	0,6281	0,7115
Run 3	-13,33	30	0,7302	0,6359	0,7312
Run 4	-10	30	0,7483	0,639	0,7439
Run 5	-6,667	30	0,7623	0,637	0,7491
Run 6	-3,333	30	0,7715	0,6293	0,746
Run 7	-4,337E-19	30	0,7748	0,6151	0,7338
Run 8	3,333	30	0,7707	0,5934	0,7118
Run 9	6,667	30	0,7573	0,5633	0,6786
Run 10	10	30	0,7318	0,5236	0,6332

Parametric Table: etaisen_40

	to	tc	etaisen ₇₁₇	etaisen ₁₃₄	etaisen ₄₁₀
Run 1	-20	40	0,6735	0,631	0,6184
Run 2	-16,67	40	0,7034	0,6501	0,6545
Run 3	-13,33	40	0,7289	0,6655	0,6858
Run 4	-10	40	0,7507	0,6772	0,712
Run 5	-6,667	40	0,7689	0,6851	0,7327
Run 6	-3,333	40	0,7832	0,6888	0,7473
Run 7	-4,337E-19	40	0,7933	0,6879	0,7552
Run 8	3,333	40	0,7983	0,6816	0,7558
Run 9	6,667	40	0,7975	0,6693	0,7484
Run 10	10	40	0,7896	0,6501	0,7321

Parametric Table: etaisen_50

	to	tc	etaisen ₇₁₇	etaisen ₁₃₄	etaisen ₄₁₀
Run 1	-20	50	0,6692	0,6348	0,5281
Run 2	-16,67	50	0,7012	0,6581	0,5679
Run 3	-13,33	50	0,7272	0,6782	0,6046
Run 4	-10	50	0,7488	0,6955	0,638
Run 5	-6,667	50	0,7668	0,7099	0,6677
Run 6	-3,333	50	0,7812	0,7212	0,6932
Run 7	-4,337E-19	50	0,792	0,7291	0,7141
Run 8	3,333	50	0,799	0,7331	0,7297
Run 9	6,667	50	0,8018	0,7326	0,7396
Run 10	10	50	0,7997	0,7272	0,7431

Parametric Table: COP tevap variable

	to	COP ₇₁₇	COP ₁₃₄₁	COP ₁₃₄₂	COP ₄₁₀₁	COP ₄₁₀₂	COP ₇₄₄
Run 1	-20	1,76	1,715	0,9765	1,556	1,172	1,071
Run 2	-16,67	1,997	1,869	1,18	1,695	1,366	1,149
Run 3	-13,33	2,243	2,03	1,402	1,843	1,578	1,253
Run 4	-10	2,506	2,205	1,643	2,001	1,81	1,38
Run 5	-6,667	2,789	2,395	1,904	2,172	2,063	1,529
Run 6	-3,333	3,099	2,603	2,186	2,36	2,339	1,7
Run 7	-4,337E-19	3,438	2,834	2,489	2,566	2,64	1,893
Run 8	3,333	3,811	3,091	2,814	2,794	2,969	2,108
Run 9	6,667	4,222	3,376	3,16	3,047	3,327	2,349
Run 10	10	4,676	3,696	3,528	3,328	3,717	2,62

Parametric Table: eta_vol_tevap_variable

	to	η_{717}	η_{1341}	η_{1342}	η_{4101}	η_{4102}	η_{744}
Run 1	-20	0,5177	0,6062	0,806	0,6492	0,7361	0,6593
Run 2	-16,67	0,5916	0,6491	0,8287	0,6799	0,8217	0,6923
Run 3	-13,33	0,6539	0,6884	0,8469	0,7065	0,882	0,719
Run 4	-10	0,7069	0,7251	0,8619	0,7297	0,9234	0,742
Run 5	-6,667	0,752	0,7599	0,8744	0,7501	0,9505	0,7631
Run 6	-3,333	0,7907	0,7932	0,885	0,768	0,9671	0,7833
Run 7	-4,337E-19	0,8239	0,8252	0,8942	0,7839	0,9759	0,8033
Run 8	3,333	0,8524	0,8559	0,9022	0,7978	0,9788	0,8235
Run 9	6,667	0,877	0,8855	0,9091	0,81	0,9775	0,8439
Run 10	10	0,898	0,9138	0,9152	0,8206	0,9731	0,8642

Parametric Table: eta_isen_tevap_variable

	to	etaisen ₇₁₇	etaisen ₁₃₄₁	etaisen ₁₃₄₂	etaisen ₄₁₀₁	etaisen ₄₁₀₂	etaisen ₇₄₄
Run 1	-20	0,6692	0,6244	0,4062	0,6994	0,5281	0,6352
Run 2	-16,67	0,7012	0,6398	0,4504	0,7043	0,5679	0,6522
Run 3	-13,33	0,7272	0,653	0,4913	0,7065	0,6046	0,664
Run 4	-10	0,7488	0,6648	0,5282	0,7064	0,638	0,6728
Run 5	-6,667	0,7668	0,6755	0,5605	0,7045	0,6677	0,6801
Run 6	-3,333	0,7812	0,6852	0,5875	0,7008	0,6932	0,6866
Run 7	-4,337E-19	0,792	0,6936	0,6087	0,6952	0,7141	0,6926
Run 8	3,333	0,799	0,7003	0,6236	0,6877	0,7297	0,6979
Run 9	6,667	0,8018	0,7049	0,6318	0,6779	0,7396	0,702
Run 10	10	0,7997	0,7068	0,6328	0,6657	0,7431	0,7042

Parametric Table: COP_tcond_variable

	tc	COP ₇₁₇	COP ₁₃₄₁	COP ₁₃₄₂	COP ₄₁₀₁	COP ₄₁₀₂	COP ₇₄₄
Run 1	35	6,312	5,033	4,703	4,808	5,269	1,796
Run 2	37,22	5,864	4,691	4,427	4,454	4,862	2,061
Run 3	39,44	5,458	4,381	4,158	4,132	4,483	2,204
Run 4	41,67	5,091	4,1	3,895	3,837	4,129	2,257
Run 5	43,89	4,76	3,841	3,64	3,566	3,798	2,248
Run 6	46,11	4,462	3,604	3,394	3,315	3,487	2,196
Run 7	48,33	4,195	3,384	3,156	3,082	3,194	2,118
Run 8	50,56	3,954	3,18	2,928	2,864	2,918	2,027
Run 9	52,78	3,737	2,99	2,71	2,66	2,658	1,935
Run 10	55	3,542	2,812	2,502	2,468	2,411	1,851

Parametric Table: eta_vol_tcond_variable

	tc	η_{717}	η_{1341}	η_{1342}	η_{4101}	η_{4102}	η_{744}
Run 1	35	0,8951	0,9324	0,9413	0,8775	1,001	0,8644
Run 2	37,22	0,893	0,9244	0,9368	0,8679	0,9975	0,8507
Run 3	39,44	0,8901	0,916	0,932	0,8578	0,9945	0,8372
Run 4	41,67	0,8864	0,9072	0,927	0,8472	0,9918	0,824
Run 5	43,89	0,8819	0,8981	0,9217	0,8362	0,9889	0,8111
Run 6	46,11	0,8766	0,8885	0,9161	0,8249	0,9857	0,7985
Run 7	48,33	0,8704	0,8786	0,9103	0,8132	0,982	0,7862
Run 8	50,56	0,8633	0,8682	0,9043	0,8011	0,9774	0,7741
Run 9	52,78	0,8553	0,8575	0,898	0,7888	0,9717	0,7624
Run 10	55	0,8463	0,8464	0,8914	0,7762	0,9647	0,7509

Parametric Table: eta isen tcond variable

	tc	etaisen ₇₁₇	etaisen ₁₃₄₁	etaisen ₁₃₄₂	etaisen ₄₁₀₁	etaisen ₄₁₀₂	etaisen ₇₄₄
Run 1	35	0,7899	0,6556	0,5946	0,651	0,7128	0,7017
Run 2	37,22	0,7952	0,6656	0,6095	0,6592	0,7192	0,702
Run 3	39,44	0,7982	0,6744	0,6207	0,666	0,7224	0,7007
Run 4	41,67	0,7998	0,6821	0,6283	0,6714	0,7227	0,6982
Run 5	43,89	0,8005	0,6888	0,6326	0,6758	0,7202	0,6949
Run 6	46,11	0,8007	0,6946	0,6336	0,6792	0,7149	0,6909
Run 7	48,33	0,8008	0,6996	0,6317	0,6817	0,707	0,6864
Run 8	50,56	0,8011	0,7039	0,6272	0,6835	0,6965	0,6813
Run 9	52,78	0,8018	0,7076	0,6202	0,6846	0,6837	0,6757
Run 10	55	0,8032	0,7106	0,6111	0,6852	0,6686	0,6697