



HANBELL Compressor Performance Report

INPUT

Model : RC2-370A
 Refrigerant : R134a
 Operating mode : Standard
 Power supply : 380V-3-50Hz
 Liquid subcooling(Only 5 deg. C) : 5
 Suct. gas superheat(Only 5 deg. C) : 5
 Useful superheat(Only 5 deg. C) : 5
 Partial capacity load only 100%

OUTPUT

| tc(deg. C) | to(deg. C) | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
|------------|-------------|--------|--------|--------|--------|--------|----|----|
| 30 | Qo(kW) | 151,8 | 188,4 | 231,6 | 282,3 | 341,9 | -- | -- |
| | P(kW) | 38,9 | 40,1 | 41,1 | 42,0 | 42,7 | | |
| | I(A) | 68,2 | 70,0 | 71,5 | 72,8 | 73,9 | | |
| | COP | 3,899 | 4,700 | 5,636 | 6,730 | 8,005 | | |
| | mLP(kg/h) | 3365,5 | 4100,1 | 4947,6 | 5930,5 | 7057,0 | | |
| | mHP(kg/h) | 3365,5 | 4100,1 | 4947,6 | 5930,5 | 7057,0 | | |
| | tcu(deg. C) | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | | |
| | Qsc(kW) | | | | | | | |
| | pm(bar) | | | | | | | |
| | Qac(kW) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | | |
| 40 | Qo(kW) | 134,6 | 168,3 | 207,8 | 254,1 | 308,4 | -- | -- |
| | P(kW) | 46,7 | 48,1 | 49,3 | 50,3 | 51,1 | | |
| | I(A) | 80,0 | 82,1 | 83,9 | 85,4 | 86,7 | | |
| | COP | 2,882 | 3,500 | 4,217 | 5,054 | 6,034 | | |
| | mLP(kg/h) | 3277,0 | 4013,2 | 4855,3 | 5828,2 | 6941,1 | | |
| | mHP(kg/h) | 3277,0 | 4013,2 | 4855,3 | 5828,2 | 6941,1 | | |
| | tcu(deg. C) | 35,0 | 35,0 | 35,0 | 35,0 | 35,0 | | |
| | Qsc(kW) | | | | | | | |
| | pm(bar) | | | | | | | |
| | Qac(kW) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | | |
| 50 | Qo(kW) | 114,1 | 144,7 | 180,4 | 222,2 | 271,3 | -- | -- |
| | P(kW) | 57,5 | 59,2 | 60,7 | 61,9 | 62,9 | | |
| | I(A) | 96,8 | 99,5 | 101,8 | 103,7 | 105,4 | | |
| | COP | 1,983 | 2,444 | 2,973 | 3,590 | 4,311 | | |
| | mLP(kg/h) | 3087,1 | 3828,3 | 4666,9 | 5630,9 | 6731,2 | | |
| | mHP(kg/h) | 3087,1 | 3828,3 | 4666,9 | 5630,9 | 6731,2 | | |
| | tcu(deg. C) | 45,0 | 45,0 | 45,0 | 45,0 | 45,0 | | |
| | Qsc(kW) | | | | | | | |
| | pm(bar) | | | | | | | |
| | Qac(kW) | 5,42 | 0,00 | 0,00 | 0,00 | 0,00 | | |

Coefficients

| | c1 | c2 | c3 | c4 | c5 | c6 | c7 | c8 | c9 | c10 |
|---------|--------|----------|----------|---------|----------|---------|-----------|------------|-----------|------------|
| Qo(W) | 287273 | 11720,74 | -1579,55 | 197,860 | -76,825 | -6,397 | 1,5246 | -1,5033 | -0,0688 | -0,0953 |
| P(W) | 35338 | 202,32 | -268,39 | 0,114 | -3,294 | 15,077 | 0,0329 | -0,0929 | 0,0915 | 0,0085 |
| F(kg/h) | 5238,6 | 188,9367 | -22,1074 | 2,97443 | -0,38547 | 0,70631 | 0,0298431 | -0,0113456 | 0,0038688 | -0,0098371 |
| I(A) | 64,35 | 0,5194 | -0,4045 | 0,00254 | -0,01556 | 0,01944 | 0,0000601 | -0,0001874 | 0,0002704 | 0,0000713 |