

Invotech Selection Software

REFRIGERANT R407C

Operation Conditions

Evaporating Temperature(ℓ): 7,2
 Condensing Temperature(ℓ): 54,4
 Liquid subcooling: 1,0
 Suction Superheat: 10,0

Required Capacity(Kw): 23,50

Compressor Selected: YH266T1-100

PERFORMANCE AT SPECIFIED OPERATING POINT

| | |
|------------------|-------|
| Capacity (KW) | 24,07 |
| Power Input (KW) | 7,83 |
| COP | 3,08 |
| Current (A) | 14,09 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------------|--------------|
| Length/Width/Height (mm) | 260/244/508 |
| Weight (kg) | 53 |
| Stub Suction (inch) | 1 1/8 |
| Stub Discharge (inch) | 7/8 |
| Base mounting (hole dia) | 190X190(8.5) |
| Oil type | POE |
| Initial charge of oil quantity (L) | 2.7 |
| Recharge of oil quantity (L) | 2.6 |
| High Side PS Max., (MPa) | 3.0 |
| Low Side PS Max., (MPa) | 2.0 |
| Displacement(m ³ /h) | 24.7 |

COMPRESSOR ELECTRICAL DATA

| | |
|------------------------------|-------------------|
| Electricity | 380V/50Hz/3P |
| Standard Conditions | 7.2/54.4/11.1/8.3 |
| Normal Power (HP) | 9 |
| Normal Capacity (ℓ) | 25530 |
| Normal Power input(ℓ) | 7780 |
| Normal COP(ℓ/ℓ) | 3.28 |
| Normal Current(ℓ) | 14.8 |
| Locked Rotor Current(ℓ) | 117 |
| Maximum operating current(ℓ) | 19.7 |

Model: YH266T1-100

Refrigerant: R407C

Suction Superheat: 10,0

Liquid subcooling: 1,0

Capacity(KW)

| Tc\Te | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 12,5 | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 25 | 8,64 | 10,98 | 13,67 | 16,76 | 20,29 | 24,3 | 28,85 | 33,97 | 36,77 | |
| 30 | 8,16 | 10,45 | 13,07 | 16,08 | 19,52 | 23,43 | 27,87 | 32,87 | 35,59 | |
| 35 | 7,69 | 9,9 | 12,45 | 15,37 | 18,71 | 22,52 | 26,83 | 31,7 | 34,35 | |
| 40 | 7,21 | 9,36 | 11,82 | 14,64 | 17,87 | 21,56 | 25,74 | 30,46 | 33,04 | |
| 45 | | 8,8 | 11,16 | 13,88 | 16,99 | 20,55 | 24,59 | 29,15 | 31,65 | |
| 50 | | | 10,49 | 13,09 | 16,08 | 19,49 | 23,38 | 27,78 | 30,19 | |
| 55 | | | | 12,28 | 15,12 | 18,38 | 22,11 | 26,34 | 28,66 | |
| 60 | | | | | 14,13 | 17,23 | 20,78 | 24,83 | 27,05 | |
| 65 | | | | | | 16,02 | 19,39 | 23,25 | 25,37 | |

Power Input(KW)

| Tc\Te | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 12,5 | |
|-------|------|------|------|------|------|------|------|------|------|--|
| 25 | 3,74 | 3,93 | 4,06 | 4,15 | 4,22 | 4,28 | 4,35 | 4,43 | 4,48 | |
| 30 | 4,21 | 4,39 | 4,52 | 4,61 | 4,68 | 4,74 | 4,8 | 4,88 | 4,93 | |
| 35 | 4,73 | 4,91 | 5,03 | 5,11 | 5,18 | 5,23 | 5,29 | 5,36 | 5,41 | |
| 40 | 5,32 | 5,48 | 5,59 | 5,67 | 5,73 | 5,77 | 5,83 | 5,9 | 5,94 | |
| 45 | | 6,13 | 6,24 | 6,3 | 6,35 | 6,39 | 6,43 | 6,49 | 6,54 | |
| 50 | | | 6,97 | 7,03 | 7,06 | 7,09 | 7,12 | 7,17 | 7,21 | |
| 55 | | | | 7,86 | 7,88 | 7,89 | 7,91 | 7,95 | 7,98 | |
| 60 | | | | | 8,81 | 8,81 | 8,82 | 8,84 | 8,87 | |
| 65 | | | | | | 9,87 | 9,86 | 9,86 | 9,88 | |

Model: YH266T1-100

Refrigerant: R407C

Suction Superheat: 10,0

Liquid subcooling: 1,0

Current(A)

| Tc\Te | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 12,5 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | 8,75 | 8,98 | 9,14 | 9,25 | 9,33 | 9,4 | 9,48 | 9,59 | 9,65 |
| 30 | 9,28 | 9,51 | 9,67 | 9,78 | 9,87 | 9,94 | 10,02 | 10,13 | 10,19 |
| 35 | 9,89 | 10,11 | 10,27 | 10,39 | 10,47 | 10,54 | 10,62 | 10,72 | 10,79 |
| 40 | 10,61 | 10,83 | 10,99 | 11,1 | 11,18 | 11,24 | 11,31 | 11,41 | 11,47 |
| 45 | | 11,69 | 11,84 | 11,94 | 12,01 | 12,06 | 12,13 | 12,21 | 12,27 |
| 50 | | | 12,85 | 12,94 | 12,99 | 13,04 | 13,09 | 13,16 | 13,21 |
| 55 | | | | 14,12 | 14,16 | 14,19 | 14,22 | 14,27 | 14,32 |
| 60 | | | | | 15,54 | 15,55 | 15,56 | 15,59 | 15,62 |
| 65 | | | | | | 17,14 | 17,13 | 17,13 | 17,15 |

Mass Flow(Kg/h)

| Tc\Te | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 12,5 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 25 | 172,08 | 222,93 | 278,99 | 341,38 | 411,23 | 489,69 | 577,88 | 676,93 | 730,89 |
| 30 | 168,36 | 219,41 | 275,69 | 338,35 | 408,51 | 487,31 | 575,88 | 675,34 | 729,52 |
| 35 | 164,71 | 215,79 | 272,15 | 334,91 | 405,21 | 484,19 | 572,97 | 672,68 | 727 |
| 40 | 161,06 | 212 | 268,26 | 330,96 | 401,24 | 480,22 | 569,05 | 668,85 | 723,22 |
| 45 | | 207,93 | 263,92 | 326,4 | 396,48 | 475,32 | 564,03 | 663,75 | 718,09 |
| 50 | | | 259,04 | 321,13 | 390,86 | 469,37 | 557,8 | 657,28 | 711,52 |
| 55 | | | | 315,05 | 384,26 | 462,29 | 550,28 | 649,35 | 703,39 |
| 60 | | | | | 376,59 | 453,98 | 541,35 | 639,84 | 693,61 |
| 65 | | | | | | 444,33 | 530,92 | 628,68 | 682,09 |