

Model: ZP295KCE-TWD

Data

Type: Hermetic scroll compressors

Producer: Copeland

Series: ZP

Model: ZP295KCE-TWD

Technical data

| | |
|------------------------------------|-------|
| Displacement [m ³ /h]: | 46,7 |
| Sound power [dBA]: | 85 |
| Sound pressure level [dB]: | 74 |
| Net Weight [kg]: | 160,0 |
| Gross Weight [kg]: | 188 |
| Oil charge [dm ³]: | 6,8 |
| Maximum high pressure [bar]: | 45 |
| Maximum standstill pressure [bar]: | 29,5 |
| Minimal lowside temperature [°C]: | -35 |
| Maximum lowside temperature [°C]: | 50 |
| PED category: | 2 |

Electrical data

| | |
|-----------------------------|-----------------|
| Power supply [V/~/Hz]: | 380-420V/3/50Hz |
| Locked rotor current [A]: | 272,0 |
| Max. operating current [A]: | 48,5 |
| Winding resistance [Ω]: | 0,5 |

Connections

| | |
|--|---------------|
| | <u>inches</u> |
| Suction connection with supplied sleeve: | 1 5/8" |
| Discharge connection with supplied sleeve: | 1 3/8" |

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Capacity

R410A

Cooling capacity [kW]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|-------|-------|-------|-------|-------|-------|--------|--------|
| 25 | 33.47 | 41.02 | 49.89 | 60.23 | 72.19 | 85.91 | 101.55 | 119.25 |
| 30 | 31.45 | 38.76 | 47.31 | 57.25 | 68.74 | 81.92 | 96.94 | 113.94 |
| 35 | 29.47 | 36.48 | 44.66 | 54.17 | 65.14 | 77.73 | 92.08 | 108.35 |
| 40 | 27.47 | 34.15 | 41.92 | 50.93 | 61.34 | 73.30 | 86.94 | 102.42 |
| 45 | - | 31.72 | 39.03 | 47.52 | 57.32 | 68.59 | 81.47 | 96.13 |
| 50 | - | - | 35.97 | 43.87 | 53.02 | 63.56 | 75.65 | 89.42 |
| 55 | - | - | - | 39.96 | 48.41 | 58.18 | 69.41 | 82.26 |
| 60 | - | - | - | - | 43.45 | 52.40 | 62.74 | 74.62 |
| 65 | - | - | - | - | 38.10 | 46.18 | 55.58 | 66.45 |

Power input [kW]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | 11.52 | 11.68 | 11.86 | 12.05 | 12.26 | 12.51 | 12.81 | 13.17 |
| 30 | 12.72 | 12.88 | 13.04 | 13.22 | 13.40 | 13.62 | 13.88 | 14.20 |
| 35 | 14.07 | 14.24 | 14.39 | 14.55 | 14.72 | 14.91 | 15.13 | 15.40 |
| 40 | 15.60 | 15.77 | 15.93 | 16.07 | 16.22 | 16.39 | 16.58 | 16.81 |
| 45 | - | 17.51 | 17.67 | 17.80 | 17.94 | 18.08 | 18.25 | 18.44 |
| 50 | - | - | 19.64 | 19.77 | 19.89 | 20.02 | 20.15 | 20.32 |
| 55 | - | - | - | 21.99 | 22.10 | 22.21 | 22.33 | 22.46 |
| 60 | - | - | - | - | 24.59 | 24.69 | 24.78 | 24.89 |
| 65 | - | - | - | - | 27.38 | 27.47 | 27.55 | 27.63 |

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Capacity

Current [A]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | 24.87 | 25.02 | 25.17 | 25.34 | 25.54 | 25.79 | 26.09 | 26.48 |
| 30 | 26.13 | 26.31 | 26.47 | 26.65 | 26.84 | 27.07 | 27.35 | 27.69 |
| 35 | 27.59 | 27.79 | 27.97 | 28.14 | 28.33 | 28.54 | 28.80 | 29.11 |
| 40 | 29.29 | 29.51 | 29.71 | 29.89 | 30.07 | 30.27 | 30.50 | 30.77 |
| 45 | - | 31.54 | 31.75 | 31.94 | 32.11 | 32.29 | 32.49 | 32.73 |
| 50 | - | - | 34.15 | 34.34 | 34.51 | 34.67 | 34.84 | 35.04 |
| 55 | - | - | - | 37.14 | 37.30 | 37.45 | 37.60 | 37.76 |
| 60 | - | - | - | - | 40.55 | 40.68 | 40.81 | 40.93 |
| 65 | - | - | - | - | 44.31 | 44.43 | 44.52 | 44.61 |

Mass flow [kg/h]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|--------|--------|--------|----------|----------|----------|----------|----------|
| 25 | 651.94 | 794.13 | 956.67 | 1 142.58 | 1 354.91 | 1 596.69 | 1 870.95 | 2 180.73 |
| 30 | 647.67 | 789.81 | 952.40 | 1 138.48 | 1 351.08 | 1 593.24 | 1 867.99 | 2 178.36 |
| 35 | 640.64 | 782.49 | 944.89 | 1 130.89 | 1 343.53 | 1 585.82 | 1 860.82 | 2 171.55 |
| 40 | 631.24 | 772.56 | 934.54 | 1 120.22 | 1 332.64 | 1 574.84 | 1 849.84 | 2 160.68 |
| 45 | - | 760.43 | 921.74 | 1 106.87 | 1 318.84 | 1 560.69 | 1 835.46 | 2 146.18 |
| 50 | - | - | 906.91 | 1 091.24 | 1 302.52 | 1 543.79 | 1 818.09 | 2 128.44 |
| 55 | - | - | - | 1 073.74 | 1 284.09 | 1 524.54 | 1 798.12 | 2 107.86 |
| 60 | - | - | - | - | 1 263.96 | 1 503.34 | 1 775.96 | 2 084.86 |
| 65 | - | - | - | - | 1 242.51 | 1 480.59 | 1 752.02 | 2 059.83 |

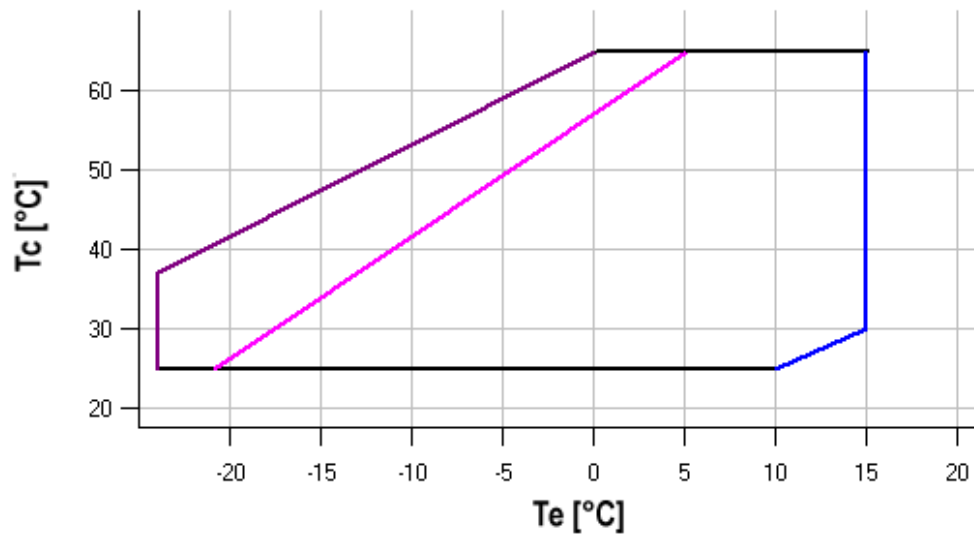
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Capacity

C.O.P. [W/W]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|------|------|------|------|------|------|------|------|
| 25 | 2.91 | 3.51 | 4.21 | 5.00 | 5.89 | 6.87 | 7.93 | 9.06 |
| 30 | 2.47 | 3.01 | 3.63 | 4.33 | 5.13 | 6.01 | 6.98 | 8.03 |
| 35 | 2.09 | 2.56 | 3.10 | 3.72 | 4.43 | 5.21 | 6.08 | 7.03 |
| 40 | 1.76 | 2.16 | 2.63 | 3.17 | 3.78 | 4.47 | 5.24 | 6.09 |
| 45 | - | 1.81 | 2.21 | 2.67 | 3.20 | 3.79 | 4.47 | 5.21 |
| 50 | - | - | 1.83 | 2.22 | 2.67 | 3.18 | 3.75 | 4.40 |
| 55 | - | - | - | 1.82 | 2.19 | 2.62 | 3.11 | 3.66 |
| 60 | - | - | - | - | 1.77 | 2.12 | 2.53 | 3.00 |
| 65 | - | - | - | - | 1.39 | 1.68 | 2.02 | 2.40 |

Application range



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: 10K suction superheat, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

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Dimensions

