

Type: Semi-hermetic piston compressors
Producer: Copeland
Series: DK

Model: DKM-7 X

Technical data

| | |
|---------------------------------------|------|
| Nominal motor power [kW]: | |
| Cylinder count: | 2 |
| Displacement [m ³ /h]: | 3,97 |
| Cylinder capacity [cm ³]: | |
| RPM [min ⁻¹]: | 1450 |
| Weight [kg]: | 41 |
| Oil charge [dm ³]: | 0,6 |
| Power supply [V/~/Hz]: | |

Connections

| | <u>milimeters</u> | <u>inches</u> |
|-----------------|-------------------|---------------|
| Suction line: | 12 | 1/2" |
| Discharge line: | 12 | 1/2" |

R404A/R507

Cooling capacity [W]

| $t_c \setminus t_e$ | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
|---------------------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 20 | 460 | 650 | 880 | 1 160 | 1 490 | 1 890 | 2 350 | 2 880 | 3 480 | 4 160 | 4 930 | 5 260 |
| 25 | 400 | 580 | 800 | 1 060 | 1 380 | 1 750 | 2 180 | 2 670 | 3 240 | 3 890 | 4 620 | 4 930 |
| 30 | 340 | 510 | 720 | 960 | 1 260 | 1 600 | 2 010 | 2 470 | 3 010 | 3 620 | 4 300 | 4 600 |
| 35 | 280 | 440 | 640 | 870 | 1 140 | 1 470 | 1 840 | 2 280 | 2 780 | 3 340 | 3 990 | 4 270 |
| 40 | 220 | 380 | 560 | 770 | 1 030 | 1 330 | 1 680 | 2 080 | 2 540 | 3 070 | 3 670 | 3 940 |
| 45 | 160 | 310 | 480 | 680 | 910 | 1 190 | 1 510 | 1 880 | 2 310 | 2 800 | 3 360 | 3 600 |
| 50 | - | 240 | 400 | 580 | 800 | 1 050 | 1 340 | 1 690 | 2 080 | 2 530 | 3 050 | 3 270 |
| 55 | - | 180 | 320 | 490 | 690 | 910 | 1 180 | 1 490 | 1 850 | 2 260 | 2 740 | 2 940 |

Power input [kW]

| $t_c \setminus t_e$ | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 7 |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 20 | 0.39 | 0.45 | 0.50 | 0.55 | 0.59 | 0.62 | 0.64 | 0.64 | 0.62 | 0.58 | 0.52 | 0.49 |
| 25 | 0.39 | 0.45 | 0.52 | 0.58 | 0.63 | 0.67 | 0.70 | 0.72 | 0.72 | 0.70 | 0.66 | 0.63 |
| 30 | 0.37 | 0.45 | 0.52 | 0.59 | 0.66 | 0.71 | 0.76 | 0.79 | 0.81 | 0.80 | 0.78 | 0.77 |
| 35 | 0.35 | 0.43 | 0.52 | 0.60 | 0.67 | 0.74 | 0.80 | 0.85 | 0.88 | 0.90 | 0.90 | 0.89 |
| 40 | 0.32 | 0.41 | 0.50 | 0.59 | 0.68 | 0.76 | 0.84 | 0.90 | 0.95 | 0.98 | 1.00 | 1.00 |
| 45 | 0.29 | 0.38 | 0.48 | 0.58 | 0.68 | 0.78 | 0.86 | 0.94 | 1.01 | 1.06 | 1.10 | 1.11 |
| 50 | - | 0.35 | 0.46 | 0.57 | 0.68 | 0.79 | 0.89 | 0.98 | 1.06 | 1.13 | 1.19 | 1.20 |
| 55 | - | 0.32 | 0.43 | 0.55 | 0.67 | 0.79 | 0.90 | 1.01 | 1.11 | 1.20 | 1.27 | 1.30 |

Operating conditions: suction gas temperature 25°C + additional cooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



