

Model: SZ 125-4

Data

Type: Hermetic scroll compressors

Producer: Maneurop

Series: SZ

Model: SZ 125-4

Technical data

| | |
|-----------------------------------|-------------|
| Displacement [m ³ /h]: | 28,99 |
| RPM [min ⁻¹]: | 2900 |
| Weight [kg]: | 80 |
| Oil charge [dm ³]: | 3,8 |
| Power supply [V/~/Hz]: | 400V/3/50Hz |

Connections

| | <u>milimeters</u> | <u>inches</u> |
|-----------------|-------------------|---------------|
| Suction line: | | 1 3/8" |
| Discharge line: | | 7/8" |

Model: SZ 125-4

Capacity

R134a

Cooling capacity [W]

| $t_c \setminus t_e$ | -15 | -12.5 | -10 | -7.5 | -5 | -2.5 | 0 | 2.5 | 5 | 7.5 | 10 | 12.5 | 15 |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 30 | 10 200 | 11 500 | 13 000 | 14 500 | 16 200 | 18 000 | 19 900 | 22 000 | 24 200 | 26 500 | 29 000 | 31 700 | 34 500 |
| 35 | 9 600 | 10 900 | 12 300 | 13 800 | 15 500 | 17 200 | 19 100 | 21 100 | 23 300 | 25 500 | 28 000 | 30 600 | 33 300 |
| 40 | 9 000 | 10 300 | 11 700 | 13 100 | 14 700 | 16 400 | 18 200 | 20 200 | 22 200 | 24 500 | 26 800 | 29 300 | 32 000 |
| 45 | 8 400 | 9 600 | 11 000 | 12 400 | 13 900 | 15 500 | 17 300 | 19 200 | 21 200 | 23 300 | 25 600 | 28 000 | 30 500 |
| 50 | 7 800 | 9 000 | 10 200 | 11 600 | 13 000 | 14 600 | 16 300 | 18 100 | 20 000 | 22 100 | 24 200 | 26 600 | 29 000 |
| 55 | - | - | 9 500 | 10 700 | 12 100 | 13 600 | 15 200 | 17 000 | 18 800 | 20 800 | 22 800 | 25 100 | 27 400 |
| 60 | - | - | - | 9 900 | 11 200 | 12 600 | 14 100 | 15 800 | 17 500 | 19 400 | 21 400 | 23 500 | 25 700 |
| 65 | - | - | - | - | - | 11 600 | 13 000 | 14 500 | 16 200 | 17 900 | 19 800 | 21 800 | 24 000 |

Power input [kW]

| $t_c \setminus t_e$ | -15 | -12.5 | -10 | -7.5 | -5 | -2.5 | 0 | 2.5 | 5 | 7.5 | 10 | 12.5 | 15 |
|---------------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 30 | 3.65 | 3.65 | 3.66 | 3.66 | 3.66 | 3.65 | 3.64 | 3.63 | 3.61 | 3.59 | 3.57 | 3.54 | 3.50 |
| 35 | 4.05 | 4.06 | 4.06 | 4.07 | 4.06 | 4.06 | 4.05 | 4.04 | 4.03 | 4.01 | 3.99 | 3.96 | 3.93 |
| 40 | 4.51 | 4.51 | 4.52 | 4.52 | 4.53 | 4.52 | 4.52 | 4.51 | 4.50 | 4.49 | 4.46 | 4.44 | 4.41 |
| 45 | 5.02 | 5.03 | 5.04 | 5.04 | 5.05 | 5.05 | 5.04 | 5.04 | 5.03 | 5.02 | 5.00 | 4.98 | 4.95 |
| 50 | 5.59 | 5.60 | 5.61 | 5.62 | 5.63 | 5.63 | 5.63 | 5.63 | 5.62 | 5.61 | 5.60 | 5.58 | 5.56 |
| 55 | - | - | 6.26 | 6.27 | 6.27 | 6.28 | 6.28 | 6.29 | 6.28 | 6.28 | 6.27 | 6.25 | 6.23 |
| 60 | - | - | - | 6.98 | 6.99 | 7.00 | 7.01 | 7.01 | 7.01 | 7.01 | 7.01 | 6.99 | 6.98 |
| 65 | - | - | - | - | - | 7.80 | 7.81 | 7.82 | 7.82 | 7.82 | 7.82 | 7.81 | 7.80 |

Operating conditions: 11.1K suction superheat, 8.3K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]