

Model: D3DS-150 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D3DS-150 X

Technical data

| | |
|-----------------------------------|-----------------|
| Cylinder count: | 3 |
| Displacement [m ³ /h]: | 49,9 |
| Weight [kg]: | 178 |
| Oil charge [dm ³]: | 3,4 |
| Max. operating current [A]: | 29 |
| Locked rotor current [A]: | 129 |
| Power supply [V/~/Hz]: | 380-420V/3/50Hz |

Connections

| | <u>milimeters</u> | <u>inches</u> |
|-----------------|-------------------|---------------|
| Suction line: | | 1 5/8" |
| Discharge line: | | 1 1/8" |

Model: D3DS-150 X

Capacity

R22

Cooling capacity [kW]

| $t_c \setminus t_e$ | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 15.90 | 20.07 | 24.97 | 30.68 | 37.33 | 45.03 | 53.87 | 63.98 |
| 35 | 14.85 | 18.89 | 23.58 | 29.04 | 35.37 | 42.69 | 51.10 | 60.72 |
| 40 | 13.82 | 17.71 | 22.20 | 27.39 | 33.41 | 40.35 | 48.33 | 57.45 |
| 45 | - | 16.55 | 20.83 | 25.76 | 31.45 | 38.01 | 45.55 | 54.17 |
| 50 | - | 15.43 | 19.49 | 24.15 | 29.51 | 35.68 | 42.77 | 50.89 |
| 55 | - | - | 18.19 | 22.57 | 27.60 | 33.38 | 40.02 | 47.63 |
| 60 | - | - | 16.94 | 21.04 | 25.72 | 31.11 | 37.29 | 44.39 |

Power input [kW]

| $t_c \setminus t_e$ | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|------|------|-------|-------|-------|-------|-------|-------|
| 30 | 6.68 | 7.25 | 7.74 | 8.13 | 8.39 | 8.49 | 8.40 | 8.09 |
| 35 | 7.00 | 7.66 | 8.26 | 8.78 | 9.18 | 9.44 | 9.53 | 9.42 |
| 40 | 7.31 | 8.06 | 8.76 | 9.40 | 9.94 | 10.36 | 10.62 | 10.70 |
| 45 | - | 8.44 | 9.25 | 10.00 | 10.67 | 11.24 | 11.67 | 11.93 |
| 50 | - | 8.82 | 9.72 | 10.58 | 11.38 | 12.09 | 12.68 | 13.12 |
| 55 | - | - | 10.18 | 11.15 | 12.07 | 12.92 | 13.66 | 14.28 |
| 60 | - | - | 10.65 | 11.71 | 12.75 | 13.73 | 14.62 | 15.40 |

Model: D3DS-150 X

Capacity

Current [A]

| $t_c \setminus t_e$ | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 13.59 | 14.47 | 15.23 | 15.84 | 16.24 | 16.39 | 16.25 | 15.77 |
| 35 | 14.08 | 15.10 | 16.04 | 16.85 | 17.48 | 17.88 | 18.02 | 17.85 |
| 40 | 14.56 | 15.72 | 16.82 | 17.82 | 18.67 | 19.32 | 19.74 | 19.86 |
| 45 | - | 16.32 | 17.58 | 18.76 | 19.82 | 20.72 | 21.39 | 21.82 |
| 50 | - | 16.91 | 18.32 | 19.68 | 20.94 | 22.07 | 23.01 | 23.71 |
| 55 | - | - | 19.05 | 20.58 | 22.04 | 23.39 | 24.58 | 25.56 |
| 60 | - | - | 19.78 | 21.47 | 23.12 | 24.68 | 26.11 | 27.36 |

Mass flow [kg/s]

| $t_c \setminus t_e$ | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|--------|--------|--------|--------|--------|--------|----------|----------|
| 30 | 302.98 | 385.92 | 481.99 | 594.60 | 727.17 | 883.12 | 1 065.85 | 1 278.78 |
| 35 | 293.16 | 375.77 | 471.13 | 582.66 | 713.78 | 867.89 | 1 048.42 | 1 258.78 |
| 40 | 283.35 | 365.46 | 459.94 | 570.22 | 699.71 | 851.82 | 1 029.98 | 1 237.59 |
| 45 | - | 355.28 | 448.72 | 557.57 | 685.27 | 835.21 | 1 010.82 | 1 215.52 |
| 50 | - | 345.56 | 437.77 | 545.04 | 670.76 | 818.37 | 991.26 | 1 192.87 |
| 55 | - | - | 427.41 | 532.91 | 656.50 | 801.60 | 971.61 | 1 169.95 |
| 60 | - | - | 417.94 | 521.51 | 642.79 | 785.20 | 952.16 | 1 147.07 |

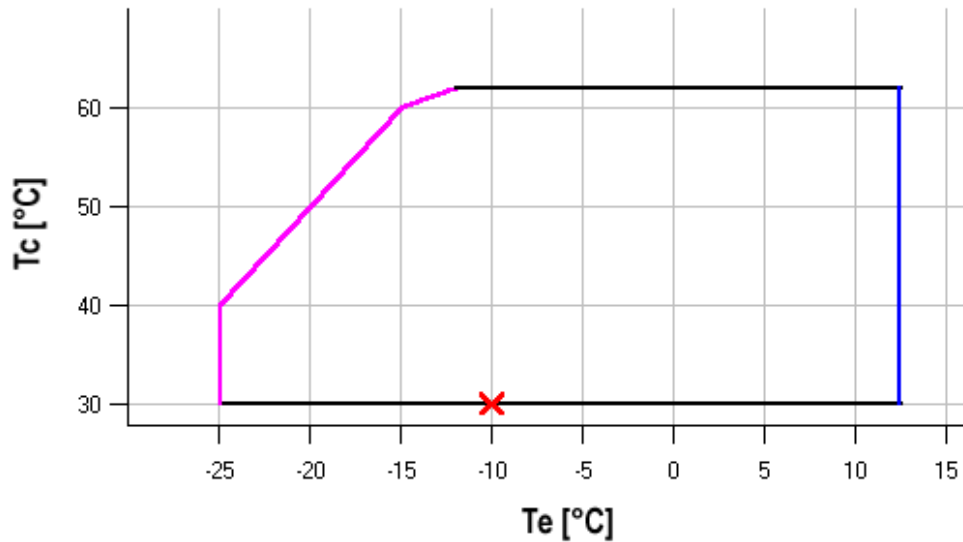
Model: D3DS-150 X

Capacity

C.O.P. [W/W]

| $t_c \setminus t_e$ | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
|---------------------|------|------|------|------|------|------|------|------|
| 30 | 2.38 | 2.77 | 3.22 | 3.77 | 4.45 | 5.30 | 6.42 | 7.91 |
| 35 | 2.12 | 2.47 | 2.85 | 3.31 | 3.85 | 4.52 | 5.36 | 6.45 |
| 40 | 1.89 | 2.20 | 2.53 | 2.91 | 3.36 | 3.90 | 4.55 | 5.37 |
| 45 | - | 1.96 | 2.25 | 2.58 | 2.95 | 3.38 | 3.90 | 4.54 |
| 50 | - | 1.75 | 2.01 | 2.28 | 2.59 | 2.95 | 3.37 | 3.88 |
| 55 | - | - | 1.79 | 2.02 | 2.29 | 2.58 | 2.93 | 3.34 |
| 60 | - | - | 1.59 | 1.80 | 2.02 | 2.27 | 2.55 | 2.88 |

Application range



- █ Maximum evaporating temperature
- █ 25°C suction gas return

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -
 t_c - Condensing temperature [°C]
 t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Capacity

R134a

Cooling capacity [kW]

| t_c \ t_e | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 | 25 |
|--------------------------------------|------------|------------|------------|-----------|----------|----------|-----------|-----------|-----------|-----------|
| 40 | 9.57 | 12.61 | 16.24 | 20.56 | 25.68 | 31.70 | 38.73 | 46.87 | - | - |
| 45 | 8.61 | 11.54 | 15.01 | 19.12 | 23.99 | 29.72 | 36.40 | 44.15 | 53.06 | 63.25 |
| 50 | 7.69 | 10.49 | 13.79 | 17.69 | 22.30 | 27.71 | 34.04 | 41.39 | 49.85 | 59.54 |
| 55 | 6.81 | 9.48 | 12.60 | 16.27 | 20.60 | 25.70 | 31.66 | 38.59 | 46.60 | 55.78 |
| 60 | - | 8.50 | 11.42 | 14.86 | 18.91 | 23.67 | 29.25 | 35.76 | 43.29 | 51.96 |
| 65 | - | 7.55 | 10.27 | 13.46 | 17.21 | 21.63 | 26.82 | 32.89 | 39.94 | 48.08 |
| 70 | - | - | 9.14 | 12.07 | 15.51 | 19.58 | 24.37 | 29.99 | 36.55 | 44.15 |
| 75 | - | - | - | 10.69 | 13.82 | 17.51 | 21.90 | 27.06 | 33.11 | 40.16 |
| 80 | - | - | - | 9.33 | 12.12 | 15.44 | 19.40 | 24.10 | 29.64 | 36.12 |

Power input [kW]

| t_c \ t_e | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 | 25 |
|--------------------------------------|------------|------------|------------|-----------|----------|----------|-----------|-----------|-----------|-----------|
| 40 | 5.06 | 5.60 | 6.12 | 6.58 | 6.97 | 7.26 | 7.42 | 7.44 | - | - |
| 45 | 5.18 | 5.80 | 6.39 | 6.95 | 7.45 | 7.86 | 8.16 | 8.33 | 8.35 | 8.19 |
| 50 | 5.31 | 5.98 | 6.66 | 7.30 | 7.90 | 8.43 | 8.87 | 9.19 | 9.37 | 9.39 |
| 55 | 5.43 | 6.16 | 6.90 | 7.64 | 8.34 | 8.98 | 9.55 | 10.01 | 10.35 | 10.54 |
| 60 | - | 6.33 | 7.13 | 7.95 | 8.75 | 9.50 | 10.19 | 10.80 | 11.29 | 11.65 |
| 65 | - | 6.48 | 7.35 | 8.24 | 9.13 | 9.99 | 10.80 | 11.54 | 12.18 | 12.71 |
| 70 | - | - | 7.54 | 8.50 | 9.47 | 10.44 | 11.36 | 12.24 | 13.02 | 13.71 |
| 75 | - | - | - | 8.73 | 9.79 | 10.85 | 11.89 | 12.88 | 13.81 | 14.65 |
| 80 | - | - | - | 8.93 | 10.07 | 11.22 | 12.36 | 13.48 | 14.55 | 15.54 |

Model: D3DS-150 X

Capacity

Current [A]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 | 25 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40 | 11.96 | 12.63 | 13.28 | 13.88 | 14.38 | 14.76 | 14.96 | 14.95 | - | - |
| 45 | 12.16 | 12.89 | 13.63 | 14.35 | 15.00 | 15.55 | 15.96 | 16.18 | 16.18 | 15.92 |
| 50 | 12.35 | 13.13 | 13.96 | 14.80 | 15.60 | 16.33 | 16.94 | 17.40 | 17.66 | 17.70 |
| 55 | 12.51 | 13.36 | 14.28 | 15.23 | 16.18 | 17.09 | 17.90 | 18.60 | 19.13 | 19.46 |
| 60 | - | 13.56 | 14.57 | 15.64 | 16.74 | 17.82 | 18.85 | 19.78 | 20.58 | 21.20 |
| 65 | - | 13.73 | 14.83 | 16.03 | 17.27 | 18.53 | 19.77 | 20.94 | 22.00 | 22.92 |
| 70 | - | - | 15.07 | 16.38 | 17.78 | 19.22 | 20.66 | 22.07 | 23.40 | 24.61 |
| 75 | - | - | - | 16.71 | 18.26 | 19.88 | 21.53 | 23.17 | 24.77 | 26.28 |
| 80 | - | - | - | 17.01 | 18.70 | 20.50 | 22.36 | 24.25 | 26.11 | 27.92 |

Mass flow [kg/s]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 | 25 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|-------------|-------------|-------------|
| 40 | 248.46 | 322.62 | 407.34 | 504.49 | 615.94 | 743.57 | 889.26 | 1 054.87 | - | - |
| 45 | 237.60 | 312.14 | 397.11 | 494.36 | 605.79 | 733.25 | 878.63 | 1 043.81 | 1 230.65 | 1 441.03 |
| 50 | 226.84 | 301.53 | 386.50 | 483.63 | 594.79 | 721.85 | 866.69 | 1 031.19 | 1 217.22 | 1 426.65 |
| 55 | 216.35 | 290.94 | 375.68 | 472.44 | 583.09 | 709.52 | 853.58 | 1 017.16 | 1 202.14 | 1 410.38 |
| 60 | - | 280.53 | 364.80 | 460.95 | 570.86 | 696.40 | 839.45 | 1 001.88 | 1 185.57 | 1 392.38 |
| 65 | - | 270.45 | 354.00 | 449.31 | 558.24 | 682.66 | 824.46 | 985.49 | 1 167.65 | 1 372.81 |
| 70 | - | - | 343.45 | 437.67 | 545.38 | 668.44 | 808.74 | 968.15 | 1 148.55 | 1 351.80 |
| 75 | - | - | - | 426.18 | 532.43 | 653.90 | 792.47 | 950.01 | 1 128.40 | 1 329.51 |
| 80 | - | - | - | 414.99 | 519.54 | 639.18 | 775.78 | 931.22 | 1 107.36 | 1 306.09 |

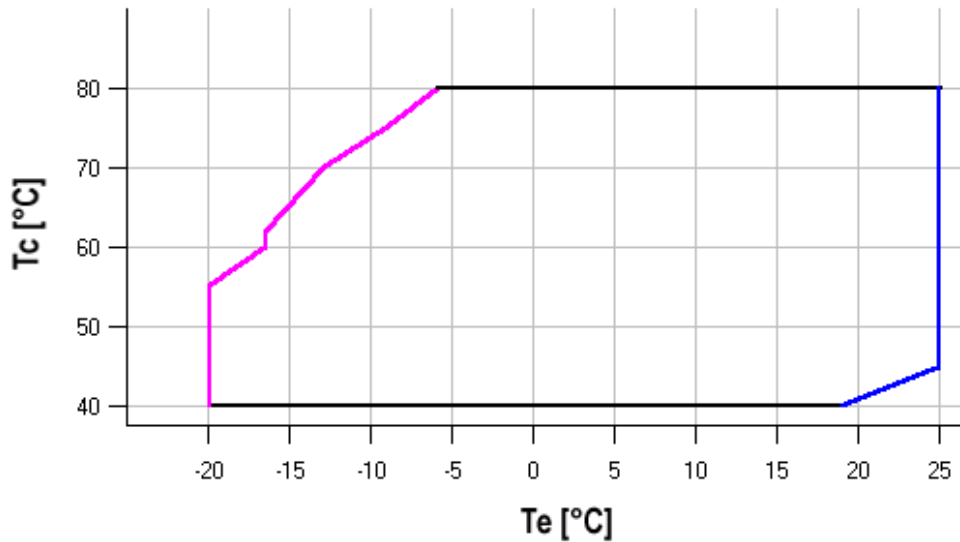
Model: D3DS-150 X

Capacity


C.O.P. [W/W]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 | 25 |
|---------------------|------|------|------|------|------|------|------|------|------|------|
| 40 | 1.89 | 2.25 | 2.65 | 3.12 | 3.68 | 4.37 | 5.22 | 6.30 | - | - |
| 45 | 1.66 | 1.99 | 2.35 | 2.75 | 3.22 | 3.78 | 4.46 | 5.30 | 6.36 | 7.73 |
| 50 | 1.45 | 1.75 | 2.07 | 2.42 | 2.82 | 3.29 | 3.84 | 4.50 | 5.32 | 6.34 |
| 55 | 1.25 | 1.54 | 1.82 | 2.13 | 2.47 | 2.86 | 3.32 | 3.85 | 4.50 | 5.29 |
| 60 | - | 1.34 | 1.60 | 1.87 | 2.16 | 2.49 | 2.87 | 3.31 | 3.83 | 4.46 |
| 65 | - | 1.17 | 1.40 | 1.63 | 1.89 | 2.17 | 2.48 | 2.85 | 3.28 | 3.78 |
| 70 | - | - | 1.21 | 1.42 | 1.64 | 1.88 | 2.14 | 2.45 | 2.81 | 3.22 |
| 75 | - | - | - | 1.22 | 1.41 | 1.61 | 1.84 | 2.10 | 2.40 | 2.74 |
| 80 | - | - | - | 1.04 | 1.20 | 1.38 | 1.57 | 1.79 | 2.04 | 2.32 |

Application range



 Maximum evaporating temperature

 20K suction superheat

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Capacity

R404A/R507

Cooling capacity [kW]

| t_c \ t_e | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |
|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|-----------|----------|----------|
| 20 | 9.92 | 12.84 | 16.42 | 20.71 | 25.82 | 31.81 | 38.76 | 46.76 | 55.89 | 66.22 |
| 25 | 9.45 | 12.29 | 15.72 | 19.81 | 24.65 | 30.31 | 36.87 | 44.42 | 53.03 | 62.78 |
| 30 | 8.74 | 11.48 | 14.75 | 18.61 | 23.16 | 28.47 | 34.62 | 41.69 | 49.76 | 58.91 |
| 35 | 7.89 | 10.50 | 13.58 | 17.19 | 21.43 | 26.36 | 32.08 | 38.65 | 46.16 | 54.69 |
| 40 | 6.97 | 9.44 | 12.30 | 15.64 | 19.54 | 24.08 | 29.34 | 35.39 | 42.33 | 50.21 |
| 45 | - | 8.37 | 11.01 | 14.06 | 17.60 | 21.72 | 26.50 | 32.01 | 38.34 | 45.56 |
| 50 | - | 7.40 | 9.78 | 12.51 | 15.68 | 19.36 | 23.64 | 28.59 | 34.29 | 40.83 |
| 55 | - | - | 8.71 | 11.11 | 13.88 | 17.10 | 20.85 | 25.21 | 30.27 | 36.09 |

Power input [kW]

| t_c \ t_e | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |
|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|-----------|----------|----------|
| 20 | 4.94 | 5.58 | 6.20 | 6.76 | 7.25 | 7.63 | 7.88 | 7.98 | 7.89 | 7.59 |
| 25 | 5.14 | 5.84 | 6.53 | 7.19 | 7.78 | 8.28 | 8.67 | 8.91 | 8.99 | 8.88 |
| 30 | 5.30 | 6.06 | 6.82 | 7.56 | 8.25 | 8.87 | 9.39 | 9.79 | 10.03 | 10.09 |
| 35 | 5.44 | 6.25 | 7.08 | 7.90 | 8.69 | 9.42 | 10.07 | 10.61 | 11.01 | 11.24 |
| 40 | 5.56 | 6.42 | 7.31 | 8.21 | 9.10 | 9.94 | 10.71 | 11.39 | 11.94 | 12.35 |
| 45 | - | 6.58 | 7.53 | 8.50 | 9.48 | 10.43 | 11.32 | 12.13 | 12.84 | 13.41 |
| 50 | - | 6.73 | 7.74 | 8.79 | 9.85 | 10.90 | 11.91 | 12.85 | 13.71 | 14.44 |
| 55 | - | - | 7.96 | 9.07 | 10.22 | 11.36 | 12.49 | 13.56 | 14.56 | 15.45 |

Model: D3DS-150 X

Capacity

Current [A]

| $t_c \setminus t_e$ | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 20 | 11.80 | 12.62 | 13.41 | 14.13 | 14.73 | 15.19 | 15.45 | 15.47 | 15.21 | 14.63 |
| 25 | 12.03 | 12.92 | 13.81 | 14.67 | 15.46 | 16.12 | 16.62 | 16.91 | 16.96 | 16.71 |
| 30 | 12.23 | 13.18 | 14.18 | 15.17 | 16.12 | 16.98 | 17.71 | 18.27 | 18.62 | 18.71 |
| 35 | 12.41 | 13.42 | 14.51 | 15.63 | 16.73 | 17.79 | 18.74 | 19.56 | 20.20 | 20.61 |
| 40 | 12.57 | 13.64 | 14.81 | 16.05 | 17.31 | 18.54 | 19.72 | 20.79 | 21.71 | 22.44 |
| 45 | - | 13.85 | 15.10 | 16.45 | 17.85 | 19.27 | 20.65 | 21.96 | 23.16 | 24.20 |
| 50 | - | 14.07 | 15.39 | 16.84 | 18.38 | 19.96 | 21.55 | 23.10 | 24.57 | 25.91 |
| 55 | - | - | 15.68 | 17.22 | 18.89 | 20.64 | 22.42 | 24.20 | 25.93 | 27.57 |

Mass flow [kg/s]

| $t_c \setminus t_e$ | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|-------------|-------------|-------------|
| 20 | 213.46 | 283.76 | 365.22 | 461.38 | 575.78 | 711.97 | 873.49 | 1 063.88 | 1 286.68 | 1 545.43 |
| 25 | 213.82 | 284.60 | 366.32 | 462.50 | 576.71 | 712.47 | 873.33 | 1 062.82 | 1 284.50 | 1 541.91 |
| 30 | 208.60 | 279.22 | 360.55 | 456.12 | 569.48 | 704.16 | 863.71 | 1 051.68 | 1 271.59 | 1 527.00 |
| 35 | 199.77 | 269.59 | 349.89 | 444.20 | 556.06 | 689.02 | 846.62 | 1 032.40 | 1 249.91 | 1 502.67 |
| 40 | 189.30 | 257.68 | 336.30 | 428.70 | 538.43 | 669.02 | 824.03 | 1 006.98 | 1 221.43 | 1 470.91 |
| 45 | - | 245.45 | 321.75 | 411.60 | 518.54 | 646.13 | 797.89 | 977.37 | 1 188.12 | 1 433.67 |
| 50 | - | 234.88 | 308.21 | 394.86 | 498.38 | 622.31 | 770.18 | 945.55 | 1 151.95 | 1 392.92 |
| 55 | - | - | 297.66 | 380.47 | 479.91 | 599.53 | 742.88 | 913.48 | 1 114.89 | 1 350.64 |

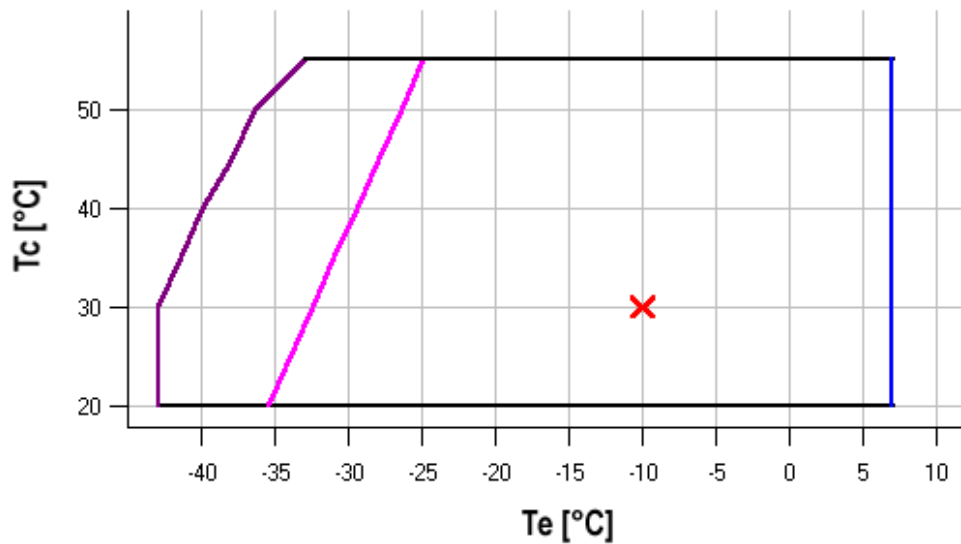
Model: D3DS-150 X




Capacity

C.O.P. [W/W]

| $t_c \setminus t_e$ | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |
|---------------------|------|------|------|------|------|------|------|------|------|------|
| 20 | 2.01 | 2.30 | 2.65 | 3.06 | 3.56 | 4.17 | 4.92 | 5.86 | 7.08 | 8.72 |
| 25 | 1.84 | 2.10 | 2.41 | 2.76 | 3.17 | 3.66 | 4.25 | 4.98 | 5.90 | 7.07 |
| 30 | 1.65 | 1.90 | 2.16 | 2.46 | 2.81 | 3.21 | 3.68 | 4.26 | 4.96 | 5.84 |
| 35 | 1.45 | 1.68 | 1.92 | 2.18 | 2.47 | 2.80 | 3.18 | 3.64 | 4.19 | 4.86 |
| 40 | 1.25 | 1.47 | 1.68 | 1.91 | 2.15 | 2.42 | 2.74 | 3.11 | 3.54 | 4.07 |
| 45 | - | 1.27 | 1.46 | 1.65 | 1.86 | 2.08 | 2.34 | 2.64 | 2.99 | 3.40 |
| 50 | - | 1.10 | 1.26 | 1.42 | 1.59 | 1.78 | 1.99 | 2.22 | 2.50 | 2.83 |
| 55 | - | - | 1.09 | 1.22 | 1.36 | 1.50 | 1.67 | 1.86 | 2.08 | 2.34 |

Application range



-  Maximum evaporating temperature
-  25°C suction gas return
-  25°C suction gas return + additional cooling

Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Capacity

R407C

Cooling capacity [kW]

| t_c \ t_e | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|--------------------------------------|------------|------------|------------|-----------|----------|----------|-----------|-----------|
| 35 | 16.89 | 21.27 | 26.65 | 33.09 | 40.65 | 49.42 | 59.46 | - |
| 40 | 15.74 | 19.80 | 24.79 | 30.78 | 37.84 | 46.03 | 55.42 | - |
| 45 | 14.64 | 18.39 | 23.01 | 28.55 | 35.10 | 42.72 | 51.48 | - |
| 50 | - | 17.03 | 21.27 | 26.39 | 32.44 | 39.50 | 47.63 | - |
| 55 | - | 15.70 | 19.58 | 24.28 | 29.84 | 36.34 | 43.86 | - |
| 60 | - | - | 17.93 | 22.21 | 27.29 | 33.25 | 40.16 | - |

Power input [kW]

| t_c \ t_e | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|--------------------------------------|------------|------------|------------|-----------|----------|----------|-----------|-----------|
| 35 | 7.01 | 7.62 | 8.19 | 8.70 | 9.08 | 9.28 | 9.27 | - |
| 40 | 7.40 | 8.08 | 8.76 | 9.39 | 9.92 | 10.31 | 10.51 | - |
| 45 | 7.79 | 8.53 | 9.30 | 10.05 | 10.73 | 11.29 | 11.69 | - |
| 50 | - | 8.97 | 9.82 | 10.68 | 11.49 | 12.22 | 12.81 | - |
| 55 | - | 9.40 | 10.32 | 11.28 | 12.22 | 13.11 | 13.88 | - |
| 60 | - | - | 10.81 | 11.86 | 12.92 | 13.95 | 14.90 | - |

Model: D3DS-150 X

Capacity

Current [A]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|----|
| 35 | 14.10 | 15.04 | 15.94 | 16.73 | 17.32 | 17.65 | 17.63 | - |
| 40 | 14.71 | 15.77 | 16.83 | 17.82 | 18.66 | 19.27 | 19.59 | - |
| 45 | 15.32 | 16.47 | 17.68 | 18.85 | 19.93 | 20.82 | 21.45 | - |
| 50 | - | 17.16 | 18.50 | 19.85 | 21.14 | 22.29 | 23.23 | - |
| 55 | - | 17.83 | 19.29 | 20.80 | 22.30 | 23.70 | 24.93 | - |
| 60 | - | - | 20.06 | 21.72 | 23.40 | 25.04 | 26.56 | - |

Mass flow [kg/s]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|--------|--------|--------|--------|--------|--------|----------|----|
| 35 | 322.35 | 409.37 | 515.55 | 643.98 | 797.75 | 979.96 | 1 193.68 | - |
| 40 | 314.50 | 398.43 | 501.40 | 626.50 | 776.81 | 955.44 | 1 165.47 | - |
| 45 | 307.14 | 388.07 | 487.92 | 609.78 | 756.73 | 931.87 | 1 138.29 | - |
| 50 | - | 378.32 | 475.15 | 593.85 | 737.54 | 909.28 | 1 112.19 | - |
| 55 | - | 369.23 | 463.12 | 578.77 | 719.27 | 887.72 | 1 087.20 | - |
| 60 | - | - | 451.88 | 564.57 | 701.98 | 867.22 | 1 063.37 | - |

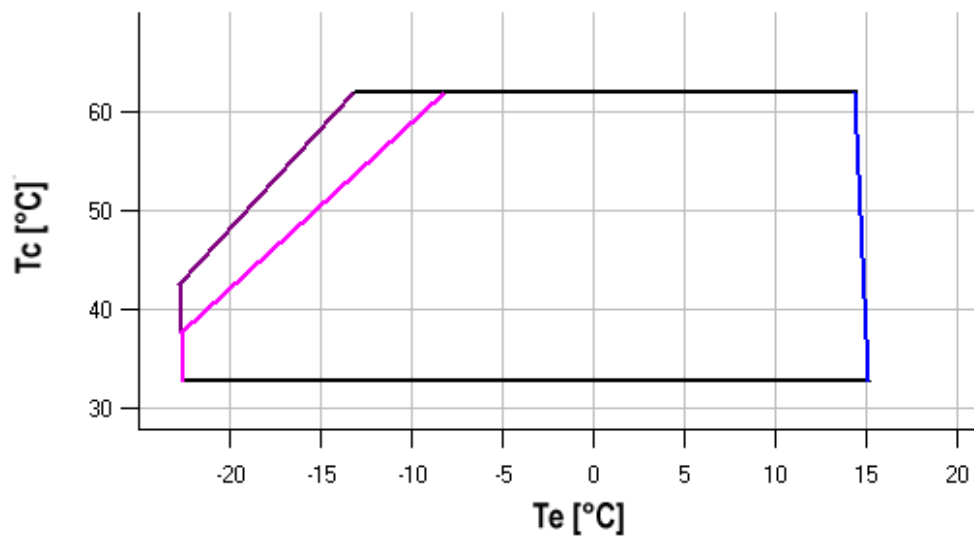
Model: D3DS-150 X

Capacity

C.O.P. [W/W]

| $t_c \setminus t_e$ | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|------|------|------|------|------|------|------|----|
| 35 | 2.41 | 2.79 | 3.25 | 3.80 | 4.48 | 5.32 | 6.41 | - |
| 40 | 2.13 | 2.45 | 2.83 | 3.28 | 3.81 | 4.46 | 5.27 | - |
| 45 | 1.88 | 2.16 | 2.47 | 2.84 | 3.27 | 3.78 | 4.40 | - |
| 50 | - | 1.90 | 2.17 | 2.47 | 2.82 | 3.23 | 3.72 | - |
| 55 | - | 1.67 | 1.90 | 2.15 | 2.44 | 2.77 | 3.16 | - |
| 60 | - | - | 1.66 | 1.87 | 2.11 | 2.38 | 2.70 | - |

Application range



- Maximum evaporating temperature
- 25°C suction gas return
- 20K suction superheat

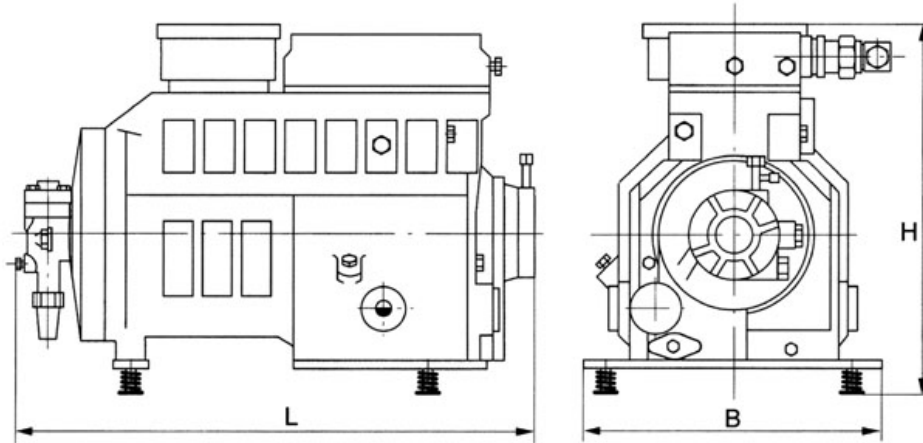
Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Dimensions



| | |
|---|--------|
| L | 710 mm |
| B | 370 mm |
| H | 490 mm |

Model: D3DS-150 X

Image

