ENGINEERING TOMORROW



Datasheets

Danfoss scroll compressors **H series**





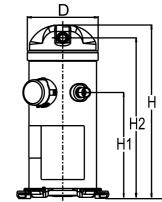
Datasheet, technical data

Danfoss scroll compressor, HLP068T5

General Characteristics

| Model number (on compressor nameplate) | | HLP068T5LP6 | |
|---|-------------|-------------|--|
| Code number for Singlepack* | | 120U1621 | |
| Code number for Industrial pack** | | 120U1618 | |
| Drawing number | | 0XR6002B-2 | |
| Suction and discharge connections | | Brazed | |
| Suction connection | | 7/8 " ODF | |
| Discharge connection | | 1/2 " ODF | |
| Oil sight glass | | None | |
| Oil equalisation connection | | None | |
| Oil drain connection | | None | |
| LP gauge port | | None | |
| IPR valve | | Yes | |
| Swept volume | 93,08 c | m3/rev | |
| Displacement @ Nominal speed | 16.2 m3/h (| @ 2900 rpm | |
| Net weight | 37,2 | 2 kg | |
| Oil charge | 1,57 litre | e, PVE | |
| Maximum system test pressure Low Side / High side | - bar(g) , | / - bar(g) | |
| Maximum differential test pressure | - bar | | |
| Maximum number of starts per hour | | - | |
| Refrigerant charge limit | 5,44 kg | | |
| Approved refrigerants | R40 |)7C | |

Dimensions

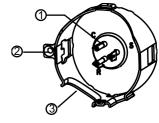


D=183,5 mm H=455 mm H1=280 mm H2=422 mm H3=- mm

Electrical Characteristics

| Electrical characteristics | |
|---|-----------------------------|
| Nominal voltage | 230V/1/50Hz |
| Voltage range | 207-253 V |
| Winding resistance (main / start) at 25°C | 0,39 Ω / 1,019 Ω |
| Run capacitors A + C | 55 μF + - μF |
| Start capacitor B | 88-108 μF |
| Start relay | 3ARR3*25AS* |
| Rated Load Amps (RLA) | 25.6 A |
| Maximum Continuous Current (MCC) | 40 A |
| Locked Rotor Amps (LRA) | 130 A |
| Motor protection | Internal overload protector |

Terminal box



IP22 1:

2:

3:

52,5 Nm

0 Nm / 0 Nm

Spade connectors 1/4" Earth connection Power cable passage

Parts shipped with compressor

Oil sight glass

Recommended Installation torques

| raits shipped with compressor |
|--|
| Mounting kit with grommets and sleeves |
| Initial oil charge |
| Installation instructions |

 $\textbf{Approvals:} \ \mathsf{CE} \ \mathsf{certified}, \ \mathsf{UL} \ \mathsf{certified} \ (\mathsf{file} \ \mathsf{SA11565}), \text{-}$

 $\hbox{*Singlepack: Compressor in cardboard box}\\$

**Industrial pack: 12 or 16 Unboxed compressors on pallet

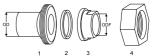


Datasheet, accessories and spare parts

Danfoss scroll compressor, HLP068T5

| Rotolock accessories, suction side | Code no. | |
|--|----------|--------|
| Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF) | 8168030 | |
| Gasket, 1-1/4" | 8156131 | |
| Rotolock accessories, discharge side | Code no. | |
| Solder sleeve, P06 (1" Rotolock, 1/2" ODF) | 8153007 | |
| Angle adapter, C06 (1" Rotolock, 1/2" ODF) | 8168007 | 9 |
| Rotolock valve, V06 (1" Rotolock, 1/2" ODF) | 8168031 | |
| Gasket, 1" | 8156130 | |
| Rotolock accessories, sets | Code no. | o |
| Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF) | 120Z0127 | |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009 | |
| Oil / lubricants | Code no. | 1 |
| PVE lubricant, 320HV (FVC68D), 1 litre can | 120Z5034 | 2 |
| Crankcase heaters | Code no. | 3 4 |
| Belt type crankcase heater, 50 W, 230 V, CE mark, UL | 120Z0057 | |
| Miscellaneous accessories | Code no. | |
| Acoustic hood | 120Z5044 | |
| Discharge thermostat kit | 7750009 | |
| Spare parts | Code no. | |
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers | 120Z5005 | |
| Mounting kit, including 1 bolt, 1 sleeve, 1 washer | 120Z5031 | |

Solder sleeve adapter set



1: Rotolock adapter (Suc & Dis)

2: Gasket (Suc & Dis)

: Solder sleeve (Suc & Dis)

: Rotolock nut (Suc & Dis)



Danfoss scroll compressor. HLP068T5

Performance data at 50 Hz, EN 12900 rating conditions

R407C

| Cond. temp. in | | | | Evapora | ting temperature | in °C (to) | | | |
|-------------------|---------------|-------|-------|---------|------------------|------------|--------|--------|--------|
| °C (tc) | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
| Cooling capacity | in W | | | | | | | | |
| 30 | - | 4 747 | 6 274 | 8 044 | 10 110 | 12 527 | 15 350 | 18 633 | 22 430 |
| 35 | | 4 392 | | 7 565 | | | 14 572 | 17 723 | 21 374 |
| | | | 5 864 | | 9 546 | 11 864 | | | |
| 40 | - | 4 034 | 5 443 | 7 065 | 8 954 | 11 163 | 13 747 | 16 758 | 20 253 |
| 45 | - | - | 5 008 | 6 544 | 8 331 | 10 422 | 12 873 | 15 736 | 19 065 |
| 50 | - | - | - | 5 998 | 7 674 | 9 639 | 11 948 | 14 652 | 17 807 |
| 55 | - | - | - | - | 6 982 | 8 812 | 10 969 | 13 506 | 16 477 |
| 60 | - | - | - | - | - | 7 938 | 9 935 | 12 295 | 15 071 |
| 65 | - | - | - | - | - | - | 8 841 | 11 014 | 13 585 |
| Power input in W | | | | | | | | | |
| 30 | - | 3 163 | 3 101 | 3 062 | 3 033 | 3 002 | 2 955 | 2 881 | 2 766 |
| 35 | - | 3 534 | 3 469 | 3 430 | 3 404 | 3 378 | 3 340 | 3 277 | 3 177 |
| 40 | - | 3 951 | 3 877 | 3 832 | 3 802 | 3 776 | 3 741 | 3 685 | 3 594 |
| 45 | - | - | 4 351 | 4 294 | 4 255 | 4 224 | 4 186 | 4 130 | 4 043 |
| 50 | _ | - | - | 4 841 | 4 788 | 4 745 | 4 699 | 4 637 | 4 548 |
| 55 | _ | - | _ | - | 5 426 | 5 366 | 5 305 | 5 233 | 5 135 |
| 60 | _ | - | - | - | - | 6 112 | 6 032 | 5 942 | 5 831 |
| 65 | - | - | _ | - | _ | - | 6 903 | 6 791 | 6 660 |
| | | 1 | ı | 1 | l | ı | 0 000 | 0701 | 0 000 |
| Current consump | tion in A | | | | | | | | |
| 30 | - | 15.37 | 15.47 | 15.49 | 15.40 | 15.21 | 14.88 | 14.43 | 13.84 |
| 35 | - | 17.21 | 17.25 | 17.24 | 17.15 | 16.99 | 16.73 | 16.37 | 15.90 |
| 40 | - | 19.28 | 19.24 | 19.17 | 19.06 | 18.90 | 18.67 | 18.38 | 18.01 |
| 45 | - | - | 21.57 | 21.41 | 21.25 | 21.06 | 20.85 | 20.60 | 20.30 |
| 50 | _ | - | - | 24.10 | 23.85 | 23.62 | 23.39 | 23.15 | 22.90 |
| 55 | - | - | - | - | 27.00 | 26.69 | 26.41 | 26.16 | 25.92 |
| 60 | - | - | - | - | - | 30.40 | 30.06 | 29.76 | 29.52 |
| 65 | - | - | - | - | _ | - | 34.44 | 34.08 | 33.80 |
| | | | 1 | -1 | l. | | - | | |
| Mass flow in kg/h | l | _ | | | | | | _ | |
| 30 | - | 106 | 138 | 174 | 215 | 262 | 316 | 378 | 448 |
| 35 | - | 104 | 136 | 172 | 213 | 260 | 314 | 376 | 447 |
| 40 | - | 101 | 133 | 169 | 210 | 257 | 311 | 373 | 444 |
| 45 | - | - | 130 | 165 | 206 | 253 | 307 | 369 | 440 |
| 50 | - | - | - | 161 | 202 | 248 | 302 | 364 | 434 |
| 55 | - | - | - | - | 196 | 242 | 295 | 356 | 426 |
| 60 | - | - | - | - | - | 234 | 286 | 347 | 416 |
| 65 | - | - | - | - | - | - | 276 | 336 | 404 |
| | | | | | | | | | |
| 30 | formance (C.C | 1.50 | 2.02 | 2.63 | 3.33 | 4.17 | 5.19 | 6.47 | 8.11 |
| 35 | - | 1.24 | 1.69 | 2.03 | 2.80 | 3.51 | 4.36 | 5.41 | 6.73 |
| 40 | | 1.02 | 1.69 | | | | 3.67 | | 5.63 |
| | - | | 1 | 1.84 | 2.35 | 2.96 | + | 4.55 | |
| 45 | - | - | 1.15 | 1.52 | 1.96 | 2.47 | 3.08 | 3.81 | 4.72 |
| 50 | - | - | - | 1.24 | 1.60 | 2.03 | 2.54 | 3.16 | 3.92 |
| 55 | - | - | - | - | 1.29 | 1.64 | 2.07 | 2.58 | 3.21 |
| 60 | - | - | - | - | - | 1.30 | 1.65 | 2.07 | 2.58 |
| 65 | - | - | - | - | - | - | 1.28 | 1.62 | 2.04 |

Nominal performance at to = 5 °C, tc = 50 °C

| rionina poriorinarios arto o o, to | •• • | |
|------------------------------------|--------|------|
| Cooling capacity | 14 652 | W |
| Power input | 4 637 | W |
| Current consumption | 23.15 | Α |
| Mass flow | 364 | kg/h |
| C.O.P. | 3.16 | |

to: Evaporating temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

| Maximum HP switch setting | 30 | bar(g) |
|---------------------------|-----|--------|
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| Sound power level | 71 | dB(A) |
|---------------------|----|-------|
| With accoustic hood | 66 | dB(A) |

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. HLP068T5

Performance data at 50 Hz, ARI rating conditions

R407C

| Cond. temp. in | temp. in Evaporating temperature in °C (to) | | | | | | | | |
|-------------------|---|-------|-------|-------|--------|--------|--------|--------|--------|
| °C (tc) | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
| Cooling capacity | ı in W | | | | | | | | |
| 30 | - | 5 097 | 6 729 | 8 617 | 10 819 | 13 391 | 16 391 | 19 877 | 23 905 |
| 35 | _ | 4 739 | 6 320 | 8 142 | 10 263 | 12 739 | 15 629 | 18 988 | 22 875 |
| 40 | | 4 378 | 5 899 | 7 646 | 9 677 | 12 049 | 14 818 | 18 043 | 21 781 |
| 45 | <u> </u> | - | 5 464 | 7 127 | 9 059 | 11 317 | 13 958 | 17 039 | 20 618 |
| 50 | _ | - | - | 6 582 | 8 406 | 10 541 | 13 045 | 15 973 | 19 385 |
| 55 | | _ | _ | - | 7 716 | 9 719 | 12 076 | 14 844 | 18 078 |
| 60 | _ | _ | _ | | - | 8 848 | 11 050 | 13 647 | 16 696 |
| 65 | <u> </u> | - | _ | - | - | - | 9 963 | 12 381 | 15 236 |
| 00 | | | | | | | 3 300 | 12 301 | 10 200 |
| Power input in V | / | | | | | | | | |
| 30 | - | 3 163 | 3 101 | 3 062 | 3 033 | 3 002 | 2 955 | 2 881 | 2 766 |
| 35 | - | 3 534 | 3 469 | 3 430 | 3 404 | 3 378 | 3 340 | 3 277 | 3 177 |
| 40 | - | 3 951 | 3 877 | 3 832 | 3 802 | 3 776 | 3 741 | 3 685 | 3 594 |
| 45 | - | - | 4 351 | 4 294 | 4 255 | 4 224 | 4 186 | 4 130 | 4 043 |
| 50 | - | - | - | 4 841 | 4 788 | 4 745 | 4 699 | 4 637 | 4 548 |
| 55 | - | - | - | - | 5 426 | 5 366 | 5 305 | 5 233 | 5 135 |
| 60 | - | - | - | - | - | 6 112 | 6 032 | 5 942 | 5 831 |
| 65 | - | - | - | - | - | - | 6 903 | 6 791 | 6 660 |
| Current consum | ption in A | | | | | 1 | | T | T |
| 30 | - | 15.37 | 15.47 | 15.49 | 15.40 | 15.21 | 14.88 | 14.43 | 13.84 |
| 35 | - | 17.21 | 17.25 | 17.24 | 17.15 | 16.99 | 16.73 | 16.37 | 15.90 |
| 40 | - | 19.28 | 19.24 | 19.17 | 19.06 | 18.90 | 18.67 | 18.38 | 18.01 |
| 45 | - | - | 21.57 | 21.41 | 21.25 | 21.06 | 20.85 | 20.60 | 20.30 |
| 50 | - | - | - | 24.10 | 23.85 | 23.62 | 23.39 | 23.15 | 22.90 |
| 55 | - | - | - | - | 27.00 | 26.69 | 26.41 | 26.16 | 25.92 |
| 60 | - | - | - | - | - | 30.40 | 30.06 | 29.76 | 29.52 |
| 65 | - | - | - | - | - | - | 34.44 | 34.08 | 33.80 |
| Mass flow in kg/ | h | | | | | | | | |
| 30 | - | 106 | 137 | 173 | 214 | 261 | 314 | 375 | 446 |
| 35 | - | 103 | 135 | 171 | 212 | 258 | 312 | 374 | 444 |
| 40 | - | 101 | 132 | 168 | 209 | 256 | 309 | 371 | 441 |
| 45 | - | - | 129 | 165 | 205 | 252 | 306 | 367 | 437 |
| 50 | - | - | - | 160 | 201 | 247 | 300 | 361 | 431 |
| 55 | - | - | - | - | 195 | 241 | 293 | 354 | 424 |
| 60 | - | - | - | - | - | 233 | 285 | 345 | 414 |
| 65 | - | - | - | - | - | - | 274 | 334 | 402 |
| Coefficient of pe | rformance (C. | O.P.) | | | | | | | |
| 30 | - | 1.61 | 2.17 | 2.81 | 3.57 | 4.46 | 5.55 | 6.90 | 8.64 |
| 35 | - | 1.34 | 1.82 | 2.37 | 3.02 | 3.77 | 4.68 | 5.79 | 7.20 |
| 40 | - | 1.11 | 1.52 | 2.00 | 2.55 | 3.19 | 3.96 | 4.90 | 6.06 |
| 45 | - | - | 1.26 | 1.66 | 2.13 | 2.68 | 3.33 | 4.13 | 5.10 |
| 50 | - | - | - | 1.36 | 1.76 | 2.22 | 2.78 | 3.44 | 4.26 |
| 55 | - | - | - | - | 1.42 | 1.81 | 2.28 | 2.84 | 3.52 |
| 60 | - | - | - | - | - | 1.45 | 1.83 | 2.30 | 2.86 |
| 65 | - | - | - | - | - | _ | 1.44 | 1.82 | 2.29 |

Nominal performance at to = 7.2 °C, tc = 54.4 °C

| | | , | |
|---|---------------------|--------|------|
| ſ | Cooling capacity | 16 354 | W |
| | Power input | 5 117 | W |
| | Current consumption | 25.67 | Α |
| | Mass flow | 385 | kg/h |
| | C.O.P. | 3.20 | |

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

| Maximum HP switch setting | 30 | bar(g) |
|---------------------------|-----|--------|
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| Sound power level | 71 | dB(A) |
|---------------------|----|-------|
| With accoustic hood | 66 | dB(A) |

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. HLP068T5

Performance data at 50 Hz, EN 12900 rating conditions

R407C

| Cond. temp. in | | | | Evapora | ating temperature | in °C (to) | | | |
|-------------------|---------------|-------|-------|---------|-------------------|------------|--------|--------|--------|
| °C (tc) | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
| Cooling capacity | in W | | | | | | | | |
| 30 | - | 4 747 | 6 274 | 8 044 | 10 110 | 12 527 | 15 350 | 18 633 | 22 430 |
| 35 | | 4 392 | | 7 565 | | | 14 572 | 17 723 | 21 374 |
| | | | 5 864 | | 9 546 | 11 864 | | | |
| 40 | - | 4 034 | 5 443 | 7 065 | 8 954 | 11 163 | 13 747 | 16 758 | 20 253 |
| 45 | - | - | 5 008 | 6 544 | 8 331 | 10 422 | 12 873 | 15 736 | 19 065 |
| 50 | - | - | - | 5 998 | 7 674 | 9 639 | 11 948 | 14 652 | 17 807 |
| 55 | - | - | - | - | 6 982 | 8 812 | 10 969 | 13 506 | 16 477 |
| 60 | - | - | - | - | - | 7 938 | 9 935 | 12 295 | 15 071 |
| 65 | - | - | - | - | - | - | 8 841 | 11 014 | 13 585 |
| Power input in W | | | | | | | | | |
| 30 | - | 3 163 | 3 101 | 3 062 | 3 033 | 3 002 | 2 955 | 2 881 | 2 766 |
| 35 | - | 3 534 | 3 469 | 3 430 | 3 404 | 3 378 | 3 340 | 3 277 | 3 177 |
| 40 | - | 3 951 | 3 877 | 3 832 | 3 802 | 3 776 | 3 741 | 3 685 | 3 594 |
| 45 | - | - | 4 351 | 4 294 | 4 255 | 4 224 | 4 186 | 4 130 | 4 043 |
| 50 | - | - | - | 4 841 | 4 788 | 4 745 | 4 699 | 4 637 | 4 548 |
| 55 | _ | - | _ | - | 5 426 | 5 366 | 5 305 | 5 233 | 5 135 |
| 60 | _ | - | - | - | - | 6 112 | 6 032 | 5 942 | 5 831 |
| 65 | - | - | _ | - | _ | - | 6 903 | 6 791 | 6 660 |
| | | 1 | I. | 1 | I. | 1 | 0 000 | 0701 | 0 000 |
| Current consump | tion in A | | | | | | | | |
| 30 | - | 15.37 | 15.47 | 15.49 | 15.40 | 15.21 | 14.88 | 14.43 | 13.84 |
| 35 | - | 17.21 | 17.25 | 17.24 | 17.15 | 16.99 | 16.73 | 16.37 | 15.90 |
| 40 | - | 19.28 | 19.24 | 19.17 | 19.06 | 18.90 | 18.67 | 18.38 | 18.01 |
| 45 | - | - | 21.57 | 21.41 | 21.25 | 21.06 | 20.85 | 20.60 | 20.30 |
| 50 | _ | - | _ | 24.10 | 23.85 | 23.62 | 23.39 | 23.15 | 22.90 |
| 55 | - | - | _ | - | 27.00 | 26.69 | 26.41 | 26.16 | 25.92 |
| 60 | - | - | - | - | - | 30.40 | 30.06 | 29.76 | 29.52 |
| 65 | - | - | _ | - | - | - | 34.44 | 34.08 | 33.80 |
| | | | | | | I | - | | |
| Mass flow in kg/h | l | _ | | _ | | _ | | _ | |
| 30 | - | 106 | 138 | 174 | 215 | 262 | 316 | 378 | 448 |
| 35 | - | 104 | 136 | 172 | 213 | 260 | 314 | 376 | 447 |
| 40 | - | 101 | 133 | 169 | 210 | 257 | 311 | 373 | 444 |
| 45 | - | - | 130 | 165 | 206 | 253 | 307 | 369 | 440 |
| 50 | - | - | - | 161 | 202 | 248 | 302 | 364 | 434 |
| 55 | - | - | - | - | 196 | 242 | 295 | 356 | 426 |
| 60 | - | - | - | - | - | 234 | 286 | 347 | 416 |
| 65 | - | - | - | - | - | - | 276 | 336 | 404 |
| | | | | | | | | | |
| 30 | formance (C.C | 1.50 | 2.02 | 2.63 | 3.33 | 4.17 | 5.19 | 6.47 | 8.11 |
| 35 | - | 1.24 | 1.69 | 2.03 | 2.80 | 3.51 | 4.36 | 5.41 | 6.73 |
| 40 | | 1.02 | 1.69 | | | | 3.67 | | 5.63 |
| | - | | | 1.84 | 2.35 | 2.96 | + | 4.55 | |
| 45 | - | - | 1.15 | 1.52 | 1.96 | 2.47 | 3.08 | 3.81 | 4.72 |
| 50 | - | - | - | 1.24 | 1.60 | 2.03 | 2.54 | 3.16 | 3.92 |
| 55 | - | - | - | - | 1.29 | 1.64 | 2.07 | 2.58 | 3.21 |
| 60 | - | - | - | - | - | 1.30 | 1.65 | 2.07 | 2.58 |
| 65 | - | - | - | - | - | - | 1.28 | 1.62 | 2.04 |

Nominal performance at to = 5 °C, tc = 50 °C

| | •• • | |
|---------------------|--------|------|
| Cooling capacity | 14 652 | W |
| Power input | 4 637 | W |
| Current consumption | 23.15 | Α |
| Mass flow | 364 | kg/h |
| C.O.P. | 3.16 | |

to: Evaporating temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

| Maximum HP switch setting | 30 | bar(g) |
|---------------------------|-----|--------|
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| Sound power level | 71 | dB(A) |
|---------------------|----|-------|
| With accoustic hood | 66 | dB(A) |

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. HLP068T5

Performance data at 50 Hz, ARI rating conditions

R407C

| Cond. temp. in | Evaporating temperature in °C (to) | | | | | | | | |
|-------------------|------------------------------------|-------|-------|-------|--------|--------|-----------------|------------------|------------------|
| °C (tc) | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
| Cooling capacity | ı in W | | | | | | | | |
| 30 | - | 5 097 | 6 729 | 8 617 | 10 819 | 13 391 | 16 391 | 19 877 | 23 905 |
| 35 | _ | 4 739 | 6 320 | 8 142 | 10 263 | 12 739 | 15 629 | 18 988 | 22 875 |
| 40 | | 4 378 | 5 899 | 7 646 | 9 677 | 12 739 | 14 818 | 18 043 | 21 781 |
| 45 | - | - | 5 464 | 7 127 | 9 059 | 11 317 | 13 958 | 17 039 | 20 618 |
| 50 | - | - | - | 6 582 | 8 406 | 10 541 | 13 936 | 15 973 | 19 385 |
| 55 | | - | | - | 7 716 | 9 719 | 12 076 | 14 844 | 18 078 |
| 60 | | | _ | - | | 1 | | | |
| 65 | - | - | - | - | - | 8 848 | 11 050 9 963 | 13 647 12 381 | 16 696 15 236 |
| 65 | - | - | - | - | _ | - | 9 903 | 12 301 | 15 230 |
| Power input in W | ı | | | | | | | | |
| 30 | - | 3 163 | 3 101 | 3 062 | 3 033 | 3 002 | 2 955 | 2 881 | 2 766 |
| 35 | - | 3 534 | 3 469 | 3 430 | 3 404 | 3 378 | 3 340 | 3 277 | 3 177 |
| 40 | - | 3 951 | 3 877 | 3 832 | 3 802 | 3 776 | 3 741 | 3 685 | 3 594 |
| 45 | - | - | 4 351 | 4 294 | 4 255 | 4 224 | 4 186 | 4 130 | 4 043 |
| 50 | - | - | - | 4 841 | 4 788 | 4 745 | 4 699 | 4 637 | 4 548 |
| 55 | - | - | - | - | 5 426 | 5 366 | 5 305 | 5 233 | 5 135 |
| 60 | - | - | - | - | - | 6 112 | 6 032 | 5 942 | 5 831 |
| 65 | - | - | - | - | - | - | 6 903 | 6 791 | 6 660 |
| | | 1 | 1 | 1 | | 1 | | | |
| Current consum | ption in A | | T | T | | T | T | T | 1 |
| 30 | - | 15.37 | 15.47 | 15.49 | 15.40 | 15.21 | 14.88 | 14.43 | 13.84 |
| 35 | - | 17.21 | 17.25 | 17.24 | 17.15 | 16.99 | 16.73 | 16.37 | 15.90 |
| 40 | - | 19.28 | 19.24 | 19.17 | 19.06 | 18.90 | 18.67 | 18.38 | 18.01 |
| 45 | - | - | 21.57 | 21.41 | 21.25 | 21.06 | 20.85 | 20.60 | 20.30 |
| 50 | - | - | - | 24.10 | 23.85 | 23.62 | 23.39 | 23.15 | 22.90 |
| 55 | - | - | - | - | 27.00 | 26.69 | 26.41 | 26.16 | 25.92 |
| 60 | - | - | - | - | - | 30.40 | 30.06 | 29.76 | 29.52 |
| 65 | - | - | - | - | - | - | 34.44 | 34.08 | 33.80 |
| Mass flow in kg/l | h | | | | | | | | |
| 30 | - | 106 | 137 | 173 | 214 | 261 | 314 | 375 | 446 |
| 35 | | 103 | 135 | 173 | 212 | 258 | 312 | 374 | 444 |
| 40 | <u> </u> | 103 | 132 | 168 | 209 | 256 | 309 | 374 | 444 |
| 45 | - | - | 129 | 165 | 209 | 252 | 309 | 367 | 441 |
| 50 | | | - | 160 | 205 | 247 | 300 | 361 | 431 |
| | - | - | | | | | | | |
| 55 60 | - | - | - | - | 195 | 241 | 293 | 354 | 424 |
| 60 65 | - | - | - | - | - | 233 | 285 | 345 334 | 414 |
| 00 | - | - | - | - | - | - | 274 | 334 | 402 |
| Coefficient of pe | , | 1 | | | T . | | T _ | Ι . | 1 |
| 30 | - | 1.61 | 2.17 | 2.81 | 3.57 | 4.46 | 5.55 | 6.90 | 8.64 |
| 35 | - | 1.34 | 1.82 | 2.37 | 3.02 | 3.77 | 4.68 | 5.79 | 7.20 |
| 40 | - | 1.11 | 1.52 | 2.00 | 2.55 | 3.19 | 3.96 | 4.90 | 6.06 |
| 45 | - | - | 1.26 | 1.66 | 2.13 | 2.68 | 3.33 | 4.13 | 5.10 |
| 50 | - | - | - | 1.36 | 1.76 | 2.22 | 2.78 | 3.44 | 4.26 |
| 55 | - | - | - | - | 1.42 | 1.81 | 2.28 | 2.84 | 3.52 |
| 60 | - | - | - | - | - | 1.45 | 1.83 | 2.30 | 2.86 |
| 65 | _ | - | _ | _ | - | _ | 1.44 | 1.82 | 2.29 |

Nominal performance at to = 7.2 °C, tc = 54.4 °C

| ſ | Cooling capacity | 16 354 | W |
|---|---------------------|--------|------|
| | Power input | 5 117 | W |
| | Current consumption | 25.67 | Α |
| | Mass flow | 385 | kg/h |
| | C.O.P. | 3.20 | |

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

| Maximum HP switch setting | 30 | bar(g) |
|---------------------------|-----|--------|
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

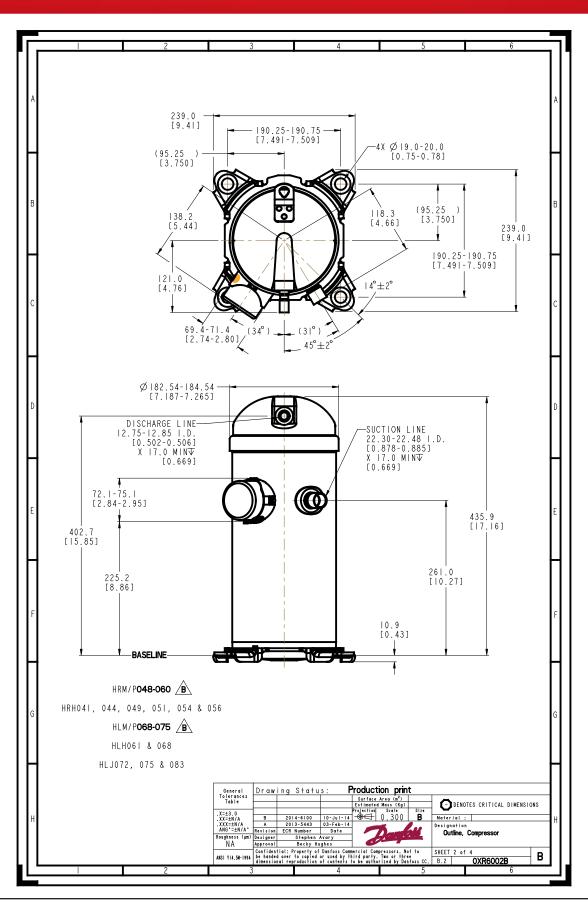
Sound power data

| Sound power level | 71 | dB(A) |
|---------------------|----|-------|
| With accoustic hood | 66 | dB(A) |

All performance data +/- 5%

tc: Condensing temperature at dew point





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