

Datasheets

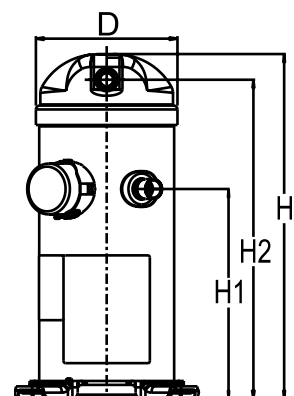
Danfoss scroll compressors **H series**



General Characteristics

| | | |
|---|--|--|
| Model number (on compressor nameplate) | | HRM042T4LP6 |
| Code number for Singlepack* | | 120U2127 |
| Code number for Industrial pack** | | 120U2124 |
| Drawing number | | 0XC6301B-2 |
| Suction and discharge connections | | Brazed |
| Suction connection | | 3/4 " 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 | | 57.11 cm ³ /rev |
| Displacement @ Nominal speed | | 9.9 m ³ /h @ 2900 rpm - 12.0 m ³ /h @ 3500 rpm |
| Net weight | | 30.84 kg |
| Oil charge | | 1.06 litre, Alkylbenzene - - |
| 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 | | 3.63 kg |
| Approved refrigerants | | R22 |

Dimensions



D=164.5 mm

H=413 mm

H1=250 mm

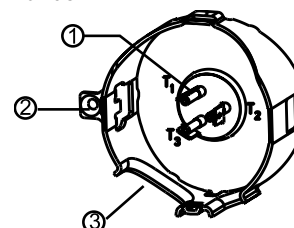
H2=379 mm

H3=- mm

Electrical Characteristics

| | |
|--|-------------------------------------|
| Nominal voltage | 380-415V/3/50Hz - 460V/3/60Hz |
| Voltage range | 342-457 V @ 50Hz - 414-506 V @ 60Hz |
| Winding resistance between phases 1-2 +/- 7% at 25°C | 4.66 Ω |
| Winding resistance between phases 1-3 +/- 7% at 25°C | 4.66 Ω |
| Winding resistance between phases 2-3 +/- 7% at 25°C | 3.42 Ω |
| Rated Load Amps (RLA) | 7.1 A |
| Maximum Continuous Current (MCC) | 11.0 A |
| Locked Rotor Amps (LRA) | 45.0 A |
| Motor protection | Internal overload protector |

Terminal box



IP22

1: Spade connectors 1/4"

2: Earth connection

3: Power cable passage

Recommended Installation torques

| | |
|--------------------------------------|-------------|
| Oil sight glass | 52.5 Nm |
| Power connections / Earth connection | 0 Nm / 0 Nm |

Parts shipped with compressor

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

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

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

Rotolock accessories, suction side
Code no.

| | |
|---|---------|
| Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF) | 8153008 |
| Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF) | 8168006 |
| Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF) | 8168029 |
| 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 |
| Rotolock valve, V06 (1" Rotolock, 1/2" ODF) | 8168031 |
| Gasket, 1" | 8156130 |

Solder sleeve adapter set


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

Rotolock accessories, sets
Code no.

| | |
|--|----------|
| Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF) | 120Z0126 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009 |

Oil / lubricants
Code no.
Crankcase heaters
Code no.

| | |
|--|----------|
| Belt type crankcase heater, 40 W, 230 V, CE mark, UL | 120Z0055 |
| Belt type crankcase heater, 40 W, 400 V, CE mark, UL | 120Z0056 |

Miscellaneous accessories
Code no.

| | |
|--------------------------|----------|
| Acoustic hood | 120Z5043 |
| Discharge thermostat kit | 7750009 |
| IP54 upgrade kit | 118U0056 |

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 |
| No translation for 120Z5015 | 120Z5015 |

Performance data at 50 Hz, EN 12900 rating conditions
R22

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|----|---|---|----|----|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|--------|--------|---|
| 30 | 3 673 | 4 291 | 5 198 | 6 378 | 7 812 | 9 483 | 11 373 | 13 462 | - |
| 35 | 3 436 | 4 047 | 4 928 | 6 063 | 7 433 | 9 021 | 10 808 | 12 776 | - |
| 40 | 3 131 | 3 750 | 4 621 | 5 725 | 7 046 | 8 566 | 10 266 | 12 128 | - |
| 45 | - | 3 384 | 4 258 | 5 347 | 6 633 | 8 100 | 9 728 | 11 499 | - |
| 50 | - | - | 3 822 | 4 910 | 6 176 | 7 604 | 9 174 | 10 870 | - |
| 55 | - | - | - | 4 397 | 5 657 | 7 060 | 8 588 | 10 221 | - |
| 60 | - | - | - | - | 5 059 | 6 451 | 7 949 | 9 535 | - |
| 65 | - | - | - | - | - | 5 759 | 7 240 | 8 792 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 1 965 | 1 955 | 1 949 | 1 939 | 1 918 | 1 879 | 1 815 | 1 717 | - |
| 35 | 2 225 | 2 188 | 2 166 | 2 150 | 2 133 | 2 108 | 2 068 | 2 005 | - |
| 40 | 2 535 | 2 462 | 2 413 | 2 381 | 2 359 | 2 338 | 2 313 | 2 275 | - |
| 45 | - | 2 789 | 2 704 | 2 646 | 2 608 | 2 582 | 2 562 | 2 539 | - |
| 50 | - | - | 3 051 | 2 958 | 2 894 | 2 853 | 2 828 | 2 811 | - |
| 55 | - | - | - | 3 328 | 3 230 | 3 164 | 3 125 | 3 103 | - |
| 60 | - | - | - | - | 3 628 | 3 528 | 3 464 | 3 429 | - |
| 65 | - | - | - | - | - | 3 957 | 3 859 | 3 800 | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 4.07 | 3.85 | 3.80 | 3.84 | 3.91 | 3.91 | 3.79 | 3.46 | - |
| 35 | 4.55 | 4.21 | 4.07 | 4.06 | 4.10 | 4.11 | 4.03 | 3.78 | - |
| 40 | 5.12 | 4.64 | 4.41 | 4.33 | 4.33 | 4.34 | 4.29 | 4.10 | - |
| 45 | - | 5.17 | 4.82 | 4.66 | 4.62 | 4.62 | 4.58 | 4.44 | - |
| 50 | - | - | 5.34 | 5.09 | 4.98 | 4.95 | 4.92 | 4.82 | - |
| 55 | - | - | - | 5.61 | 5.43 | 5.36 | 5.32 | 5.24 | - |
| 60 | - | - | - | - | 5.98 | 5.86 | 5.80 | 5.72 | - |
| 65 | - | - | - | - | - | 6.45 | 6.36 | 6.29 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|---|
| 30 | 80 | 92 | 110 | 134 | 162 | 194 | 230 | 270 | - |
| 35 | 78 | 91 | 109 | 132 | 160 | 192 | 227 | 265 | - |
| 40 | 74 | 87 | 106 | 130 | 158 | 189 | 224 | 262 | - |
| 45 | - | 83 | 102 | 127 | 155 | 187 | 221 | 259 | - |
| 50 | - | - | 96 | 122 | 151 | 183 | 218 | 256 | - |
| 55 | - | - | - | 115 | 145 | 178 | 214 | 252 | - |
| 60 | - | - | - | - | 137 | 172 | 209 | 247 | - |
| 65 | - | - | - | - | - | 163 | 201 | 241 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 1.87 | 2.19 | 2.67 | 3.29 | 4.07 | 5.05 | 6.27 | 7.84 | - |
| 35 | 1.54 | 1.85 | 2.28 | 2.82 | 3.48 | 4.28 | 5.23 | 6.37 | - |
| 40 | 1.23 | 1.52 | 1.91 | 2.40 | 2.99 | 3.66 | 4.44 | 5.33 | - |
| 45 | - | 1.21 | 1.57 | 2.02 | 2.54 | 3.14 | 3.80 | 4.53 | - |
| 50 | - | - | 1.25 | 1.66 | 2.13 | 2.66 | 3.24 | 3.87 | - |
| 55 | - | - | - | 1.32 | 1.75 | 2.23 | 2.75 | 3.29 | - |
| 60 | - | - | - | - | 1.39 | 1.83 | 2.29 | 2.78 | - |
| 65 | - | - | - | - | - | 1.46 | 1.88 | 2.31 | - |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 174 | W |
| Power input | 2 828 | W |
| Current consumption | 4.92 | A |
| Mass flow | 218 | kg/h |
| C.O.P. | 3.24 | |

Pressure switch settings

| | | |
|---------------------------|-----|--------|
| Maximum HP switch setting | 29 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 67 | dB(A) |
| With acoustic hood | 62 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R22

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|----|---|---|----|----|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|---|
| 30 | 3 901 | 4 553 | 5 512 | 6 758 | 8 272 | 10 034 | 12 025 | 14 225 | - |
| 35 | 3 662 | 4 309 | 5 244 | 6 446 | 7 896 | 9 575 | 11 464 | 13 542 | - |
| 40 | 3 351 | 4 009 | 4 935 | 6 110 | 7 513 | 9 125 | 10 928 | 12 900 | - |
| 45 | - | 3 634 | 4 568 | 5 730 | 7 102 | 8 664 | 10 397 | 12 280 | - |
| 50 | - | - | 4 121 | 5 288 | 6 645 | 8 173 | 9 851 | 11 661 | - |
| 55 | - | - | - | 4 763 | 6 121 | 7 630 | 9 271 | 11 023 | - |
| 60 | - | - | - | - | 5 511 | 7 018 | 8 637 | 10 348 | - |
| 65 | - | - | - | - | - | 6 315 | 7 929 | 9 615 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 1 965 | 1 955 | 1 949 | 1 939 | 1 918 | 1 879 | 1 815 | 1 717 | - |
| 35 | 2 225 | 2 188 | 2 166 | 2 150 | 2 133 | 2 108 | 2 068 | 2 005 | - |
| 40 | 2 535 | 2 462 | 2 413 | 2 381 | 2 359 | 2 338 | 2 313 | 2 275 | - |
| 45 | - | 2 789 | 2 704 | 2 646 | 2 608 | 2 582 | 2 562 | 2 539 | - |
| 50 | - | - | 3 051 | 2 958 | 2 894 | 2 853 | 2 828 | 2 811 | - |
| 55 | - | - | - | 3 328 | 3 230 | 3 164 | 3 125 | 3 103 | - |
| 60 | - | - | - | - | 3 628 | 3 528 | 3 464 | 3 429 | - |
| 65 | - | - | - | - | - | 3 957 | 3 859 | 3 800 | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 4.07 | 3.85 | 3.80 | 3.84 | 3.91 | 3.91 | 3.79 | 3.46 | - |
| 35 | 4.55 | 4.21 | 4.07 | 4.06 | 4.10 | 4.11 | 4.03 | 3.78 | - |
| 40 | 5.12 | 4.64 | 4.41 | 4.33 | 4.33 | 4.34 | 4.29 | 4.10 | - |
| 45 | - | 5.17 | 4.82 | 4.66 | 4.62 | 4.62 | 4.58 | 4.44 | - |
| 50 | - | - | 5.34 | 5.09 | 4.98 | 4.95 | 4.92 | 4.82 | - |
| 55 | - | - | - | 5.61 | 5.43 | 5.36 | 5.32 | 5.24 | - |
| 60 | - | - | - | - | 5.98 | 5.86 | 5.80 | 5.72 | - |
| 65 | - | - | - | - | - | 6.45 | 6.36 | 6.29 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|---|
| 30 | 79 | 92 | 110 | 133 | 161 | 193 | 229 | 269 | - |
| 35 | 77 | 90 | 108 | 131 | 159 | 191 | 226 | 264 | - |
| 40 | 73 | 87 | 106 | 129 | 157 | 188 | 223 | 260 | - |
| 45 | - | 82 | 102 | 126 | 154 | 186 | 220 | 257 | - |
| 50 | - | - | 96 | 121 | 150 | 182 | 217 | 254 | - |
| 55 | - | - | - | 114 | 144 | 177 | 213 | 250 | - |
| 60 | - | - | - | - | 137 | 171 | 208 | 246 | - |
| 65 | - | - | - | - | - | 162 | 200 | 240 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 1.99 | 2.33 | 2.83 | 3.49 | 4.31 | 5.34 | 6.63 | 8.28 | - |
| 35 | 1.65 | 1.97 | 2.42 | 3.00 | 3.70 | 4.54 | 5.54 | 6.75 | - |
| 40 | 1.32 | 1.63 | 2.05 | 2.57 | 3.19 | 3.90 | 4.72 | 5.67 | - |
| 45 | - | 1.30 | 1.69 | 2.17 | 2.72 | 3.36 | 4.06 | 4.84 | - |
| 50 | - | - | 1.35 | 1.79 | 2.30 | 2.86 | 3.48 | 4.15 | - |
| 55 | - | - | - | 1.43 | 1.90 | 2.41 | 2.97 | 3.55 | - |
| 60 | - | - | - | - | 1.52 | 1.99 | 2.49 | 3.02 | - |
| 65 | - | - | - | - | - | 1.60 | 2.05 | 2.53 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 104 | W |
| Power input | 3 076 | W |
| Current consumption | 5.24 | A |
| Mass flow | 230 | kg/h |
| C.O.P. | 3.28 | |

Pressure switch settings

| | | |
|---------------------------|-----|--------|
| Maximum HP switch setting | 29 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

| | | |
|---------------------|----|-------|
| Sound power level | 67 | dB(A) |
| With accoustic hood | 62 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Datasheet, performance data

Danfoss scroll compressor. HRM042T4

Performance data at 60 Hz, EN 12900 rating conditions

R22

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|----|---|---|----|----|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|---|
| 30 | 4 380 | 5 115 | 6 196 | 7 603 | 9 313 | 11 304 | 13 554 | 16 041 | - |
| 35 | 4 103 | 4 830 | 5 882 | 7 237 | 8 872 | 10 768 | 12 900 | 15 248 | - |
| 40 | 3 749 | 4 486 | 5 525 | 6 845 | 8 425 | 10 242 | 12 275 | 14 501 | - |
| 45 | - | 4 058 | 5 102 | 6 406 | 7 947 | 9 704 | 11 655 | 13 777 | - |
| 50 | - | - | 4 592 | 5 896 | 7 415 | 9 129 | 11 015 | 13 052 | - |
| 55 | - | - | - | 5 292 | 6 807 | 8 494 | 10 333 | 12 300 | - |
| 60 | - | - | - | - | 6 100 | 7 777 | 9 584 | 11 499 | - |
| 65 | - | - | - | - | - | 6 955 | 8 746 | 10 624 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 2 338 | 2 327 | 2 320 | 2 308 | 2 283 | 2 237 | 2 160 | 2 045 | - |
| 35 | 2 645 | 2 602 | 2 575 | 2 556 | 2 536 | 2 507 | 2 459 | 2 385 | - |
| 40 | 3 009 | 2 923 | 2 866 | 2 828 | 2 801 | 2 777 | 2 746 | 2 702 | - |
| 45 | - | 3 306 | 3 206 | 3 137 | 3 092 | 3 062 | 3 038 | 3 011 | - |
| 50 | - | - | 3 611 | 3 501 | 3 426 | 3 378 | 3 348 | 3 327 | - |
| 55 | - | - | - | 3 933 | 3 816 | 3 739 | 3 692 | 3 667 | - |
| 60 | - | - | - | - | 4 279 | 4 161 | 4 085 | 4 043 | - |
| 65 | - | - | - | - | - | 4 659 | 4 543 | 4 473 | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 4.17 | 3.94 | 3.89 | 3.94 | 4.00 | 4.01 | 3.88 | 3.54 | - |
| 35 | 4.66 | 4.31 | 4.17 | 4.16 | 4.20 | 4.21 | 4.13 | 3.87 | - |
| 40 | 5.24 | 4.76 | 4.51 | 4.43 | 4.44 | 4.45 | 4.40 | 4.20 | - |
| 45 | - | 5.30 | 4.94 | 4.78 | 4.73 | 4.73 | 4.70 | 4.55 | - |
| 50 | - | - | 5.47 | 5.21 | 5.10 | 5.07 | 5.04 | 4.93 | - |
| 55 | - | - | - | 5.74 | 5.56 | 5.49 | 5.45 | 5.37 | - |
| 60 | - | - | - | - | 6.12 | 6.00 | 5.94 | 5.86 | - |
| 65 | - | - | - | - | - | 6.61 | 6.51 | 6.44 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|---|
| 30 | 95 | 110 | 132 | 159 | 193 | 232 | 275 | 322 | - |
| 35 | 93 | 108 | 130 | 158 | 191 | 229 | 271 | 317 | - |
| 40 | 88 | 105 | 127 | 155 | 189 | 226 | 268 | 313 | - |
| 45 | - | 99 | 123 | 152 | 186 | 224 | 265 | 310 | - |
| 50 | - | - | 116 | 146 | 181 | 220 | 262 | 307 | - |
| 55 | - | - | - | 138 | 175 | 215 | 258 | 303 | - |
| 60 | - | - | - | - | 166 | 207 | 252 | 298 | - |
| 65 | - | - | - | - | - | 197 | 243 | 291 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 1.87 | 2.20 | 2.67 | 3.29 | 4.08 | 5.05 | 6.27 | 7.84 | - |
| 35 | 1.55 | 1.86 | 2.28 | 2.83 | 3.50 | 4.30 | 5.25 | 6.39 | - |
| 40 | 1.25 | 1.53 | 1.93 | 2.42 | 3.01 | 3.69 | 4.47 | 5.37 | - |
| 45 | - | 1.23 | 1.59 | 2.04 | 2.57 | 3.17 | 3.84 | 4.58 | - |
| 50 | - | - | 1.27 | 1.68 | 2.16 | 2.70 | 3.29 | 3.92 | - |
| 55 | - | - | - | 1.35 | 1.78 | 2.27 | 2.80 | 3.35 | - |
| 60 | - | - | - | - | 1.43 | 1.87 | 2.35 | 2.84 | - |
| 65 | - | - | - | - | - | 1.49 | 1.93 | 2.38 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 11 015 | W |
| Power input | 3 348 | W |
| Current consumption | 5.04 | A |
| Mass flow | 262 | kg/h |
| C.O.P. | 3.29 | |

Pressure switch settings

| | | |
|---------------------------|-----|--------|
| Maximum HP switch setting | 29 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions
R22

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|----|---|---|----|----|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|---|
| 30 | 4 652 | 5 428 | 6 570 | 8 056 | 9 860 | 11 960 | 14 331 | 16 950 | - |
| 35 | 4 374 | 5 144 | 6 258 | 7 693 | 9 425 | 11 429 | 13 683 | 16 161 | - |
| 40 | 4 012 | 4 796 | 5 901 | 7 305 | 8 983 | 10 911 | 13 066 | 15 424 | - |
| 45 | - | 4 358 | 5 474 | 6 866 | 8 509 | 10 381 | 12 456 | 14 712 | - |
| 50 | - | - | 4 951 | 6 350 | 7 978 | 9 812 | 11 828 | 14 001 | - |
| 55 | - | - | - | 5 733 | 7 365 | 9 180 | 11 155 | 13 265 | - |
| 60 | - | - | - | - | 6 644 | 8 460 | 10 413 | 12 479 | - |
| 65 | - | - | - | - | - | 7 627 | 9 577 | 11 619 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 2 338 | 2 327 | 2 320 | 2 308 | 2 283 | 2 237 | 2 160 | 2 045 | - |
| 35 | 2 645 | 2 602 | 2 575 | 2 556 | 2 536 | 2 507 | 2 459 | 2 385 | - |
| 40 | 3 009 | 2 923 | 2 866 | 2 828 | 2 801 | 2 777 | 2 746 | 2 702 | - |
| 45 | - | 3 306 | 3 206 | 3 137 | 3 092 | 3 062 | 3 038 | 3 011 | - |
| 50 | - | - | 3 611 | 3 501 | 3 426 | 3 378 | 3 348 | 3 327 | - |
| 55 | - | - | - | 3 933 | 3 816 | 3 739 | 3 692 | 3 667 | - |
| 60 | - | - | - | - | 4 279 | 4 161 | 4 085 | 4 043 | - |
| 65 | - | - | - | - | - | 4 659 | 4 543 | 4 473 | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 4.17 | 3.94 | 3.89 | 3.94 | 4.00 | 4.01 | 3.88 | 3.54 | - |
| 35 | 4.66 | 4.31 | 4.17 | 4.16 | 4.20 | 4.21 | 4.13 | 3.87 | - |
| 40 | 5.24 | 4.76 | 4.51 | 4.43 | 4.44 | 4.45 | 4.40 | 4.20 | - |
| 45 | - | 5.30 | 4.94 | 4.78 | 4.73 | 4.73 | 4.70 | 4.55 | - |
| 50 | - | - | 5.47 | 5.21 | 5.10 | 5.07 | 5.04 | 4.93 | - |
| 55 | - | - | - | 5.74 | 5.56 | 5.49 | 5.45 | 5.37 | - |
| 60 | - | - | - | - | 6.12 | 6.00 | 5.94 | 5.86 | - |
| 65 | - | - | - | - | - | 6.61 | 6.51 | 6.44 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|---|
| 30 | 95 | 109 | 131 | 159 | 192 | 230 | 273 | 320 | - |
| 35 | 92 | 108 | 129 | 157 | 190 | 228 | 269 | 315 | - |
| 40 | 88 | 104 | 127 | 155 | 188 | 225 | 267 | 311 | - |
| 45 | - | 98 | 122 | 151 | 185 | 222 | 264 | 308 | - |
| 50 | - | - | 115 | 146 | 180 | 219 | 261 | 305 | - |
| 55 | - | - | - | 138 | 174 | 214 | 256 | 301 | - |
| 60 | - | - | - | - | 165 | 206 | 250 | 296 | - |
| 65 | - | - | - | - | - | 196 | 242 | 290 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 1.99 | 2.33 | 2.83 | 3.49 | 4.32 | 5.35 | 6.63 | 8.29 | - |
| 35 | 1.65 | 1.98 | 2.43 | 3.01 | 3.72 | 4.56 | 5.56 | 6.78 | - |
| 40 | 1.33 | 1.64 | 2.06 | 2.58 | 3.21 | 3.93 | 4.76 | 5.71 | - |
| 45 | - | 1.32 | 1.71 | 2.19 | 2.75 | 3.39 | 4.10 | 4.89 | - |
| 50 | - | - | 1.37 | 1.81 | 2.33 | 2.91 | 3.53 | 4.21 | - |
| 55 | - | - | - | 1.46 | 1.93 | 2.46 | 3.02 | 3.62 | - |
| 60 | - | - | - | - | 1.55 | 2.03 | 2.55 | 3.09 | - |
| 65 | - | - | - | - | - | 1.64 | 2.11 | 2.60 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 12 155 | W |
| Power input | 3 636 | W |
| Current consumption | 5.37 | A |
| Mass flow | 276 | kg/h |
| C.O.P. | 3.34 | |

Pressure switch settings

| | | |
|---------------------------|-----|--------|
| Maximum HP switch setting | 29 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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