

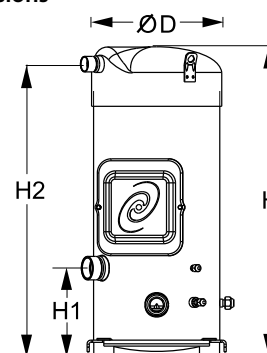
Datasheets

Danfoss scroll compressors **DSH / SM / SY / SZ / SH / WSH**



General Characteristics

| Model number (on compressor nameplate) | SZ160T4RC | SZ160T4CC |
|---|---|------------------|
| Code number for Singlepack* | SZ160-4RAI | SZ160-4CBI |
| Code number for Industrial pack** | SZ160-4RAM | SZ160-4CBM |
| Drawing number | 8551120b | 8551055c |
| Suction and discharge connections | Rotolock | Brazed |
| Suction connection | 2-1/4" Rotolock | 1-5/8" ODF |
| Discharge connection | 1-3/4" Rotolock | 1-1/8" ODF |
| Suction connection with supplied sleeve | 1-3/8" ODF | |
| Discharge connection with supplied sleeve | 7/8" ODF | |
| Oil sight glass | Threaded | Threaded |
| Oil equalisation connection | 3/8" flare SAE | 3/8" flare SAE |
| Oil drain connection | 1/4" flare | 1/4" flare |
| LP gauge port | Schrader | Schrader |
| IPR valve | None | None |
| Swept volume | 216.6 cm ³ /rev | |
| Displacement @ Nominal speed | 37.7 m ³ /h @ 2900 rpm - 45.5 m ³ /h @ 3500 rpm | |
| Net weight | 90 kg | |
| Oil charge | 4 litre, POE - 160SZ | |
| Maximum system test pressure Low Side / High side | 25 bar(g) / 32 bar(g) | |
| Maximum differential test pressure | 24 bar | |
| Maximum number of starts per hour | 12 | |
| Refrigerant charge limit | 12.5 kg | |
| Approved refrigerants | R407C, R134a, R404A, R507A | |

Dimensions


D=266 mm

H=631 mm

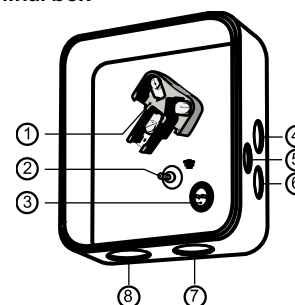
H1=180 mm

H2=596 mm

H3=- mm

Electrical Characteristics

| | |
|--|---|
| Nominal voltage | 380-400V/3/50Hz - 460V/3/60Hz |
| Voltage range | 340-440 V @ 50Hz - 414-506 V @ 60Hz |
| Winding resistance (between phases) +/- 7% at 25°C | 0.94 Ω |
| Maximum Must Trip current (MMT) | 29 A |
| Locked Rotor Amps (LRA) | 150 A |
| Motor protection | Internal thermostat, ext. overload protector needed |

Terminal box


IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermostat connector
- 4: Knock-out Ø 22 mm (7/8") for 1/2" conduit
- 5: Knock-out Ø 16.5 mm (0.65")
- 6: Knock-out Ø 20.5 mm (0.81")
- 7: Double knock-out Ø 32.1 mm (1.26") & Ø 25.4 mm (1")
- 8: Double knock-out Ø 44 mm (1-3/4") for 1-1/4" conduit & Ø 34 mm (1-3/8") for 1" conduit

Recommended Installation torques

| | |
|--------------------------------------|-------------|
| Suction Rotolock nut or valve | 130 Nm |
| Discharge Rotolock nut or valve | 110 Nm |
| Oil sight glass | 50 Nm |
| Power connections / Earth connection | 3 Nm / 2 Nm |
| Terminal box cover screws | 2.3 Nm |
| Mounting bolts | 21 Nm |

Parts shipped with compressor

| |
|--|
| Mounting kit with grommets, bolts, nuts, sleeves and washers |
| Initial oil charge |
| Installation instructions |

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

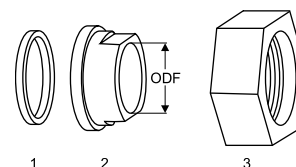
**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side
Code no.

| | |
|---|---------|
| Solder sleeve, P08 (2-1/4" Rotolock, 1-3/8" ODF) | 8153005 |
| Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF) | 8153006 |
| Rotolock valve, V08 (2-1/4" Rotolock, 1-3/8" ODF) | 8168025 |
| Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF) | 8168026 |
| Gasket, 2-1/4" | 8156133 |

Rotolock accessories, discharge side
Code no.

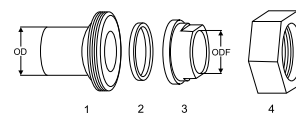
| | |
|---|---------|
| Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF) | 8153013 |
| Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF) | 8153004 |
| Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF) | 8168008 |
| Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF) | 8168005 |
| Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF) | 8168032 |
| Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF) | 8168028 |
| Gasket, 1-3/4" | 8156132 |

Gaskets, sleeves and nuts


- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

Rotolock accessories, sets
Code no.

| | |
|--|---------|
| Solder sleeve adapter set, (2-1/4" Rotolock, 1-5/8" ODF), (1-3/4" Rotolock, 1"1/8 ODF) | 7765028 |
| Valve set, V08 (2-1/4"~1-3/8"), V07 (1-3/4"~7/8") | 7703010 |
| Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white | 8156013 |

Solder sleeve adapter set


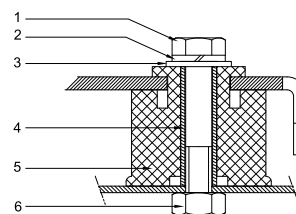
- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

Oil / lubricants
Code no.

| | |
|-------------------------------------|----------|
| POE lubricant, 160SZ, 1 litre can | 7754023 |
| POE lubricant, 160SZ, 2.5 litre can | 120Z0571 |

Crankcase heaters
Code no.

| | |
|---|----------|
| Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL | 120Z0363 |
| Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL | 120Z0384 |
| Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL | 120Z0385 |
| Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL | 120Z0386 |
| Belt type crankcase heater, 65 W, 460 V, CE mark, UL | 120Z0466 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 7773107 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 7773117 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 120Z0039 |

Mounting kit


- 1: Bolt (4x)
- 2: Lock washer (4x)
- 3: Flat washer (4x)
- 4: Sleeve (4x)
- 5: Grommet (4x)
- 6: Nut (4x)

Miscellaneous accessories
Code no.

| | |
|--|----------|
| Electronic soft start kit, MCI 25 C | 7705007 |
| Acoustic hood for scroll compressor S160 | 7755008 |
| Bottom insulation for scroll compressor | 120Z0357 |
| Discharge thermostat kit | 7750009 |

Spare parts
Code no.

| | |
|--|---------|
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers | 8156138 |
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 rotolock nuts, 2 solder sleeves, 2 gaskets | 8156147 |
| Oil sight glass with gaskets (black & white) | 8156019 |
| Gasket for oil sight glass (white teflon) | 8156129 |
| Terminal box 186 x 198 mm, incl cover | 8156139 |
| T block connector 60 x 75 mm | 8173021 |

Performance data at 50 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 14 560 | 18 543 | 23 283 | 28 882 | 35 443 | 43 068 | 51 857 | 61 914 | - |
| 35 | 13 697 | 17 568 | 22 154 | 27 558 | 33 881 | 41 226 | 49 693 | 59 386 | - |
| 40 | 12 777 | 16 505 | 20 906 | 26 083 | 32 137 | 39 171 | 47 286 | 56 584 | - |
| 45 | - | 15 374 | 19 559 | 24 478 | 30 232 | 36 924 | 44 655 | 53 527 | - |
| 50 | - | - | 18 133 | 22 763 | 28 186 | 34 505 | 41 821 | 50 236 | - |
| 55 | - | - | - | 20 957 | 26 018 | 31 933 | 38 803 | 46 730 | - |
| 60 | - | - | - | - | 23 750 | 29 229 | 35 622 | 43 030 | - |
| 65 | - | - | - | - | 21 400 | 26 413 | 32 297 | 39 155 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|---|
| 30 | 6 584 | 6 668 | 6 729 | 6 769 | 6 791 | 6 796 | 6 786 | 6 764 | - |
| 35 | 7 344 | 7 442 | 7 516 | 7 567 | 7 599 | 7 612 | 7 610 | 7 593 | - |
| 40 | 8 191 | 8 303 | 8 389 | 8 451 | 8 492 | 8 514 | 8 518 | 8 506 | - |
| 45 | - | 9 268 | 9 366 | 9 439 | 9 489 | 9 518 | 9 528 | 9 522 | - |
| 50 | - | - | 10 466 | 10 549 | 10 608 | 10 644 | 10 660 | 10 658 | - |
| 55 | - | - | - | 11 800 | 11 866 | 11 910 | 11 931 | 11 933 | - |
| 60 | - | - | - | - | 13 283 | 13 333 | 13 360 | 13 365 | - |
| 65 | - | - | - | - | 14 877 | 14 933 | 14 964 | 14 973 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.98 | 14.05 | 14.06 | 14.04 | 13.98 | 13.89 | 13.78 | 13.65 | - |
| 35 | 14.79 | 14.88 | 14.93 | 14.95 | 14.93 | 14.89 | 14.83 | 14.75 | - |
| 40 | 15.72 | 15.84 | 15.93 | 15.97 | 15.99 | 15.99 | 15.97 | 15.93 | - |
| 45 | - | 16.97 | 17.07 | 17.14 | 17.19 | 17.21 | 17.22 | 17.22 | - |
| 50 | - | - | 18.42 | 18.50 | 18.57 | 18.61 | 18.64 | 18.67 | - |
| 55 | - | - | - | 20.09 | 20.16 | 20.22 | 20.26 | 20.31 | - |
| 60 | - | - | - | - | 22.02 | 22.07 | 22.13 | 22.18 | - |
| 65 | - | - | - | - | 24.17 | 24.22 | 24.27 | 24.32 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 30 | 306 | 384 | 475 | 580 | 700 | 839 | 996 | 1 175 | - |
| 35 | 302 | 381 | 473 | 578 | 700 | 839 | 997 | 1 177 | - |
| 40 | 297 | 377 | 469 | 575 | 696 | 836 | 994 | 1 174 | - |
| 45 | - | 371 | 462 | 568 | 690 | 829 | 987 | 1 166 | - |
| 50 | - | - | 454 | 560 | 681 | 819 | 976 | 1 155 | - |
| 55 | - | - | - | 549 | 668 | 806 | 962 | 1 139 | - |
| 60 | - | - | - | - | 654 | 789 | 944 | 1 119 | - |
| 65 | - | - | - | - | 636 | 770 | 922 | 1 095 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.21 | 2.78 | 3.46 | 4.27 | 5.22 | 6.34 | 7.64 | 9.15 | - |
| 35 | 1.87 | 2.36 | 2.95 | 3.64 | 4.46 | 5.42 | 6.53 | 7.82 | - |
| 40 | 1.56 | 1.99 | 2.49 | 3.09 | 3.78 | 4.60 | 5.55 | 6.65 | - |
| 45 | - | 1.66 | 2.09 | 2.59 | 3.19 | 3.88 | 4.69 | 5.62 | - |
| 50 | - | - | 1.73 | 2.16 | 2.66 | 3.24 | 3.92 | 4.71 | - |
| 55 | - | - | - | 1.78 | 2.19 | 2.68 | 3.25 | 3.92 | - |
| 60 | - | - | - | - | 1.79 | 2.19 | 2.67 | 3.22 | - |
| 65 | - | - | - | - | 1.44 | 1.77 | 2.16 | 2.62 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 34 505 | W |
| Power input | 10 644 | W |
| Current consumption | 18.61 | A |
| Mass flow | 819 | kg/h |
| C.O.P. | 3.24 | |


Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|------|-------|
| Sound power level | 80.5 | dB(A) |
| With acoustic hood | 73 | 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
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 15 616 | 19 865 | 24 915 | 30 874 | 37 848 | 45 944 | 55 268 | 65 926 | - |
| 35 | 14 762 | 18 909 | 23 816 | 29 591 | 36 339 | 44 168 | 53 185 | 63 495 | - |
| 40 | 13 848 | 17 862 | 22 594 | 28 152 | 34 643 | 42 174 | 50 853 | 60 785 | - |
| 45 | - | 16 744 | 21 269 | 26 579 | 32 781 | 39 983 | 48 292 | 57 816 | - |
| 50 | - | - | 19 863 | 24 893 | 30 774 | 37 615 | 45 525 | 54 610 | - |
| 55 | - | - | - | 23 115 | 28 644 | 35 094 | 42 574 | 51 191 | - |
| 60 | - | - | - | - | 26 416 | 32 444 | 39 464 | 47 584 | - |
| 65 | - | - | - | - | 24 116 | 29 692 | 36 224 | 43 821 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|---|
| 30 | 6 584 | 6 668 | 6 729 | 6 769 | 6 791 | 6 796 | 6 786 | 6 764 | - |
| 35 | 7 344 | 7 442 | 7 516 | 7 567 | 7 599 | 7 612 | 7 610 | 7 593 | - |
| 40 | 8 191 | 8 303 | 8 389 | 8 451 | 8 492 | 8 514 | 8 518 | 8 506 | - |
| 45 | - | 9 268 | 9 366 | 9 439 | 9 489 | 9 518 | 9 528 | 9 522 | - |
| 50 | - | - | 10 466 | 10 549 | 10 608 | 10 644 | 10 660 | 10 658 | - |
| 55 | - | - | - | 11 800 | 11 866 | 11 910 | 11 931 | 11 933 | - |
| 60 | - | - | - | - | 13 283 | 13 333 | 13 360 | 13 365 | - |
| 65 | - | - | - | - | 14 877 | 14 933 | 14 964 | 14 973 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.98 | 14.05 | 14.06 | 14.04 | 13.98 | 13.89 | 13.78 | 13.65 | - |
| 35 | 14.79 | 14.88 | 14.93 | 14.95 | 14.93 | 14.89 | 14.83 | 14.75 | - |
| 40 | 15.72 | 15.84 | 15.93 | 15.97 | 15.99 | 15.99 | 15.97 | 15.93 | - |
| 45 | - | 16.97 | 17.07 | 17.14 | 17.19 | 17.21 | 17.22 | 17.22 | - |
| 50 | - | - | 18.42 | 18.50 | 18.57 | 18.61 | 18.64 | 18.67 | - |
| 55 | - | - | - | 20.09 | 20.16 | 20.22 | 20.26 | 20.31 | - |
| 60 | - | - | - | - | 22.02 | 22.07 | 22.13 | 22.18 | - |
| 65 | - | - | - | - | 24.17 | 24.22 | 24.27 | 24.32 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 30 | 304 | 382 | 472 | 577 | 697 | 834 | 990 | 1 168 | - |
| 35 | 301 | 379 | 470 | 575 | 696 | 834 | 991 | 1 169 | - |
| 40 | 296 | 375 | 466 | 571 | 693 | 831 | 988 | 1 166 | - |
| 45 | - | 369 | 460 | 565 | 686 | 824 | 981 | 1 159 | - |
| 50 | - | - | 452 | 557 | 677 | 814 | 971 | 1 148 | - |
| 55 | - | - | - | 546 | 665 | 801 | 956 | 1 132 | - |
| 60 | - | - | - | - | 650 | 785 | 938 | 1 112 | - |
| 65 | - | - | - | - | 633 | 765 | 917 | 1 088 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.37 | 2.98 | 3.70 | 4.56 | 5.57 | 6.76 | 8.14 | 9.75 | - |
| 35 | 2.01 | 2.54 | 3.17 | 3.91 | 4.78 | 5.80 | 6.99 | 8.36 | - |
| 40 | 1.69 | 2.15 | 2.69 | 3.33 | 4.08 | 4.95 | 5.97 | 7.15 | - |
| 45 | - | 1.81 | 2.27 | 2.82 | 3.45 | 4.20 | 5.07 | 6.07 | - |
| 50 | - | - | 1.90 | 2.36 | 2.90 | 3.53 | 4.27 | 5.12 | - |
| 55 | - | - | - | 1.96 | 2.41 | 2.95 | 3.57 | 4.29 | - |
| 60 | - | - | - | - | 1.99 | 2.43 | 2.95 | 3.56 | - |
| 65 | - | - | - | - | 1.62 | 1.99 | 2.42 | 2.93 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 38 585 | W |
| Power input | 11 761 | W |
| Current consumption | 20.03 | A |
| Mass flow | 869 | kg/h |
| C.O.P. | 3.28 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|------|-------|
| Sound power level | 80.5 | dB(A) |
| With acoustic hood | 73 | 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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Performance data at 50 Hz, EN 12900 rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 11 454 | 14 689 | 18 492 | 22 920 | 28 031 | 33 883 | 40 533 | - | - |
| 40 | 10 708 | 13 831 | 17 497 | 21 764 | 26 688 | 32 328 | 38 742 | - | - |
| 45 | 9 943 | 12 939 | 16 454 | 20 544 | 25 267 | 30 680 | 36 841 | - | - |
| 50 | 9 162 | 12 017 | 15 365 | 19 263 | 23 769 | 28 939 | 34 831 | - | - |
| 55 | - | 11 068 | 14 234 | 17 925 | 22 198 | 27 109 | 32 717 | - | - |
| 60 | - | - | 13 064 | 16 532 | 20 556 | 25 193 | 30 500 | - | - |
| 65 | - | - | - | 15 087 | 18 846 | 23 192 | 28 182 | - | - |
| 70 | - | - | - | 13 591 | 17 070 | 21 108 | 25 762 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 259 | 5 322 | 5 374 | 5 410 | 5 427 | 5 421 | 5 389 | - | - |
| 40 | 5 790 | 5 856 | 5 912 | 5 953 | 5 975 | 5 976 | 5 950 | - | - |
| 45 | 6 391 | 6 461 | 6 521 | 6 567 | 6 595 | 6 602 | 6 584 | - | - |
| 50 | 7 067 | 7 141 | 7 206 | 7 257 | 7 292 | 7 306 | 7 295 | - | - |
| 55 | - | 7 902 | 7 972 | 8 030 | 8 071 | 8 093 | 8 090 | - | - |
| 60 | - | - | 8 825 | 8 890 | 8 938 | 8 968 | 8 974 | - | - |
| 65 | - | - | - | 9 842 | 9 899 | 9 937 | 9 952 | - | - |
| 70 | - | - | - | 10 893 | 10 957 | 11 004 | 11 030 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 12.56 | 12.61 | 12.63 | 12.63 | 12.61 | 12.55 | 12.45 | - | - |
| 40 | 13.04 | 13.09 | 13.13 | 13.15 | 13.14 | 13.09 | 13.02 | - | - |
| 45 | 13.61 | 13.68 | 13.73 | 13.76 | 13.77 | 13.75 | 13.70 | - | - |
| 50 | 14.31 | 14.39 | 14.45 | 14.50 | 14.53 | 14.53 | 14.50 | - | - |
| 55 | - | 15.22 | 15.30 | 15.37 | 15.42 | 15.44 | 15.44 | - | - |
| 60 | - | - | 16.29 | 16.38 | 16.45 | 16.50 | 16.53 | - | - |
| 65 | - | - | - | 17.55 | 17.65 | 17.72 | 17.78 | - | - |
| 70 | - | - | - | 18.89 | 19.01 | 19.12 | 19.20 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 278 | 348 | 429 | 521 | 625 | 742 | 872 | - | - |
| 40 | 273 | 344 | 426 | 519 | 623 | 741 | 872 | - | - |
| 45 | 267 | 340 | 422 | 515 | 621 | 738 | 870 | - | - |
| 50 | 261 | 334 | 417 | 511 | 616 | 734 | 866 | - | - |
| 55 | - | 328 | 411 | 505 | 611 | 729 | 860 | - | - |
| 60 | - | - | 405 | 498 | 604 | 722 | 853 | - | - |
| 65 | - | - | - | 490 | 595 | 713 | 843 | - | - |
| 70 | - | - | - | 481 | 585 | 702 | 832 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.18 | 2.76 | 3.44 | 4.24 | 5.16 | 6.25 | 7.52 | - | - |
| 40 | 1.85 | 2.36 | 2.96 | 3.66 | 4.47 | 5.41 | 6.51 | - | - |
| 45 | 1.56 | 2.00 | 2.52 | 3.13 | 3.83 | 4.65 | 5.60 | - | - |
| 50 | 1.30 | 1.68 | 2.13 | 2.65 | 3.26 | 3.96 | 4.77 | - | - |
| 55 | - | 1.40 | 1.79 | 2.23 | 2.75 | 3.35 | 4.04 | - | - |
| 60 | - | - | 1.48 | 1.86 | 2.30 | 2.81 | 3.40 | - | - |
| 65 | - | - | - | 1.53 | 1.90 | 2.33 | 2.83 | - | - |
| 70 | - | - | - | 1.25 | 1.56 | 1.92 | 2.34 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 23 769 | W |
| Power input | 7 292 | W |
| Current consumption | 14.53 | A |
| Mass flow | 616 | kg/h |
| C.O.P. | 3.26 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 12 406 | 15 883 | 19 962 | 24 704 | 30 167 | 36 413 | 43 501 | - | - |
| 40 | 11 660 | 15 033 | 18 984 | 23 572 | 28 858 | 34 902 | 41 763 | - | - |
| 45 | 10 895 | 14 148 | 17 955 | 22 375 | 27 468 | 33 293 | 39 912 | - | - |
| 50 | 10 112 | 13 231 | 16 878 | 21 114 | 25 998 | 31 591 | 37 952 | - | - |
| 55 | - | 12 285 | 15 757 | 19 793 | 24 454 | 29 798 | 35 886 | - | - |
| 60 | - | - | 14 595 | 18 417 | 22 838 | 27 918 | 33 717 | - | - |
| 65 | - | - | - | 16 988 | 21 154 | 25 955 | 31 450 | - | - |
| 70 | - | - | - | 15 510 | 19 406 | 23 912 | 29 088 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 259 | 5 322 | 5 374 | 5 410 | 5 427 | 5 421 | 5 389 | - | - |
| 40 | 5 790 | 5 856 | 5 912 | 5 953 | 5 975 | 5 976 | 5 950 | - | - |
| 45 | 6 391 | 6 461 | 6 521 | 6 567 | 6 595 | 6 602 | 6 584 | - | - |
| 50 | 7 067 | 7 141 | 7 206 | 7 257 | 7 292 | 7 306 | 7 295 | - | - |
| 55 | - | 7 902 | 7 972 | 8 030 | 8 071 | 8 093 | 8 090 | - | - |
| 60 | - | - | 8 825 | 8 890 | 8 938 | 8 968 | 8 974 | - | - |
| 65 | - | - | - | 9 842 | 9 899 | 9 937 | 9 952 | - | - |
| 70 | - | - | - | 10 893 | 10 957 | 11 004 | 11 030 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 12.56 | 12.61 | 12.63 | 12.63 | 12.61 | 12.55 | 12.45 | - | - |
| 40 | 13.04 | 13.09 | 13.13 | 13.15 | 13.14 | 13.09 | 13.02 | - | - |
| 45 | 13.61 | 13.68 | 13.73 | 13.76 | 13.77 | 13.75 | 13.70 | - | - |
| 50 | 14.31 | 14.39 | 14.45 | 14.50 | 14.53 | 14.53 | 14.50 | - | - |
| 55 | - | 15.22 | 15.30 | 15.37 | 15.42 | 15.44 | 15.44 | - | - |
| 60 | - | - | 16.29 | 16.38 | 16.45 | 16.50 | 16.53 | - | - |
| 65 | - | - | - | 17.55 | 17.65 | 17.72 | 17.78 | - | - |
| 70 | - | - | - | 18.89 | 19.01 | 19.12 | 19.20 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 276 | 347 | 427 | 518 | 622 | 738 | 867 | - | - |
| 40 | 271 | 343 | 424 | 516 | 620 | 737 | 867 | - | - |
| 45 | 266 | 338 | 420 | 513 | 617 | 734 | 865 | - | - |
| 50 | 260 | 333 | 415 | 508 | 613 | 730 | 861 | - | - |
| 55 | - | 327 | 409 | 503 | 608 | 725 | 855 | - | - |
| 60 | - | - | 402 | 496 | 601 | 718 | 848 | - | - |
| 65 | - | - | - | 488 | 592 | 709 | 839 | - | - |
| 70 | - | - | - | 478 | 582 | 698 | 827 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.36 | 2.98 | 3.71 | 4.57 | 5.56 | 6.72 | 8.07 | - | - |
| 40 | 2.01 | 2.57 | 3.21 | 3.96 | 4.83 | 5.84 | 7.02 | - | - |
| 45 | 1.70 | 2.19 | 2.75 | 3.41 | 4.16 | 5.04 | 6.06 | - | - |
| 50 | 1.43 | 1.85 | 2.34 | 2.91 | 3.57 | 4.32 | 5.20 | - | - |
| 55 | - | 1.55 | 1.98 | 2.46 | 3.03 | 3.68 | 4.44 | - | - |
| 60 | - | - | 1.65 | 2.07 | 2.56 | 3.11 | 3.76 | - | - |
| 65 | - | - | - | 1.73 | 2.14 | 2.61 | 3.16 | - | - |
| 70 | - | - | - | 1.42 | 1.77 | 2.17 | 2.64 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 26 920 | W |
| Power input | 7 985 | W |
| Current consumption | 15.32 | A |
| Mass flow | 658 | kg/h |
| C.O.P. | 3.37 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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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Performance data at 50 Hz, EN 12900 rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 11 454 | 14 689 | 18 492 | 22 920 | 28 031 | 33 883 | 40 533 | - | - |
| 40 | 10 708 | 13 831 | 17 497 | 21 764 | 26 688 | 32 328 | 38 742 | - | - |
| 45 | 9 943 | 12 939 | 16 454 | 20 544 | 25 267 | 30 680 | 36 841 | - | - |
| 50 | 9 162 | 12 017 | 15 365 | 19 263 | 23 769 | 28 939 | 34 831 | - | - |
| 55 | - | 11 068 | 14 234 | 17 925 | 22 198 | 27 109 | 32 717 | - | - |
| 60 | - | - | 13 064 | 16 532 | 20 556 | 25 193 | 30 500 | - | - |
| 65 | - | - | - | 15 087 | 18 846 | 23 192 | 28 182 | - | - |
| 70 | - | - | - | 13 591 | 17 070 | 21 108 | 25 762 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 259 | 5 322 | 5 374 | 5 410 | 5 427 | 5 421 | 5 389 | - | - |
| 40 | 5 790 | 5 856 | 5 912 | 5 953 | 5 975 | 5 976 | 5 950 | - | - |
| 45 | 6 391 | 6 461 | 6 521 | 6 567 | 6 595 | 6 602 | 6 584 | - | - |
| 50 | 7 067 | 7 141 | 7 206 | 7 257 | 7 292 | 7 306 | 7 295 | - | - |
| 55 | - | 7 902 | 7 972 | 8 030 | 8 071 | 8 093 | 8 090 | - | - |
| 60 | - | - | 8 825 | 8 890 | 8 938 | 8 968 | 8 974 | - | - |
| 65 | - | - | - | 9 842 | 9 899 | 9 937 | 9 952 | - | - |
| 70 | - | - | - | 10 893 | 10 957 | 11 004 | 11 030 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 12.56 | 12.61 | 12.63 | 12.63 | 12.61 | 12.55 | 12.45 | - | - |
| 40 | 13.04 | 13.09 | 13.13 | 13.15 | 13.14 | 13.09 | 13.02 | - | - |
| 45 | 13.61 | 13.68 | 13.73 | 13.76 | 13.77 | 13.75 | 13.70 | - | - |
| 50 | 14.31 | 14.39 | 14.45 | 14.50 | 14.53 | 14.53 | 14.50 | - | - |
| 55 | - | 15.22 | 15.30 | 15.37 | 15.42 | 15.44 | 15.44 | - | - |
| 60 | - | - | 16.29 | 16.38 | 16.45 | 16.50 | 16.53 | - | - |
| 65 | - | - | - | 17.55 | 17.65 | 17.72 | 17.78 | - | - |
| 70 | - | - | - | 18.89 | 19.01 | 19.12 | 19.20 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 278 | 348 | 429 | 521 | 625 | 742 | 872 | - | - |
| 40 | 273 | 344 | 426 | 519 | 623 | 741 | 872 | - | - |
| 45 | 267 | 340 | 422 | 515 | 621 | 738 | 870 | - | - |
| 50 | 261 | 334 | 417 | 511 | 616 | 734 | 866 | - | - |
| 55 | - | 328 | 411 | 505 | 611 | 729 | 860 | - | - |
| 60 | - | - | 405 | 498 | 604 | 722 | 853 | - | - |
| 65 | - | - | - | 490 | 595 | 713 | 843 | - | - |
| 70 | - | - | - | 481 | 585 | 702 | 832 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.18 | 2.76 | 3.44 | 4.24 | 5.16 | 6.25 | 7.52 | - | - |
| 40 | 1.85 | 2.36 | 2.96 | 3.66 | 4.47 | 5.41 | 6.51 | - | - |
| 45 | 1.56 | 2.00 | 2.52 | 3.13 | 3.83 | 4.65 | 5.60 | - | - |
| 50 | 1.30 | 1.68 | 2.13 | 2.65 | 3.26 | 3.96 | 4.77 | - | - |
| 55 | - | 1.40 | 1.79 | 2.23 | 2.75 | 3.35 | 4.04 | - | - |
| 60 | - | - | 1.48 | 1.86 | 2.30 | 2.81 | 3.40 | - | - |
| 65 | - | - | - | 1.53 | 1.90 | 2.33 | 2.83 | - | - |
| 70 | - | - | - | 1.25 | 1.56 | 1.92 | 2.34 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 23 769 | W |
| Power input | 7 292 | W |
| Current consumption | 14.53 | A |
| Mass flow | 616 | kg/h |
| C.O.P. | 3.26 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 12 406 | 15 883 | 19 962 | 24 704 | 30 167 | 36 413 | 43 501 | - | - |
| 40 | 11 660 | 15 033 | 18 984 | 23 572 | 28 858 | 34 902 | 41 763 | - | - |
| 45 | 10 895 | 14 148 | 17 955 | 22 375 | 27 468 | 33 293 | 39 912 | - | - |
| 50 | 10 112 | 13 231 | 16 878 | 21 114 | 25 998 | 31 591 | 37 952 | - | - |
| 55 | - | 12 285 | 15 757 | 19 793 | 24 454 | 29 798 | 35 886 | - | - |
| 60 | - | - | 14 595 | 18 417 | 22 838 | 27 918 | 33 717 | - | - |
| 65 | - | - | - | 16 988 | 21 154 | 25 955 | 31 450 | - | - |
| 70 | - | - | - | 15 510 | 19 406 | 23 912 | 29 088 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 259 | 5 322 | 5 374 | 5 410 | 5 427 | 5 421 | 5 389 | - | - |
| 40 | 5 790 | 5 856 | 5 912 | 5 953 | 5 975 | 5 976 | 5 950 | - | - |
| 45 | 6 391 | 6 461 | 6 521 | 6 567 | 6 595 | 6 602 | 6 584 | - | - |
| 50 | 7 067 | 7 141 | 7 206 | 7 257 | 7 292 | 7 306 | 7 295 | - | - |
| 55 | - | 7 902 | 7 972 | 8 030 | 8 071 | 8 093 | 8 090 | - | - |
| 60 | - | - | 8 825 | 8 890 | 8 938 | 8 968 | 8 974 | - | - |
| 65 | - | - | - | 9 842 | 9 899 | 9 937 | 9 952 | - | - |
| 70 | - | - | - | 10 893 | 10 957 | 11 004 | 11 030 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 12.56 | 12.61 | 12.63 | 12.63 | 12.61 | 12.55 | 12.45 | - | - |
| 40 | 13.04 | 13.09 | 13.13 | 13.15 | 13.14 | 13.09 | 13.02 | - | - |
| 45 | 13.61 | 13.68 | 13.73 | 13.76 | 13.77 | 13.75 | 13.70 | - | - |
| 50 | 14.31 | 14.39 | 14.45 | 14.50 | 14.53 | 14.53 | 14.50 | - | - |
| 55 | - | 15.22 | 15.30 | 15.37 | 15.42 | 15.44 | 15.44 | - | - |
| 60 | - | - | 16.29 | 16.38 | 16.45 | 16.50 | 16.53 | - | - |
| 65 | - | - | - | 17.55 | 17.65 | 17.72 | 17.78 | - | - |
| 70 | - | - | - | 18.89 | 19.01 | 19.12 | 19.20 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 276 | 347 | 427 | 518 | 622 | 738 | 867 | - | - |
| 40 | 271 | 343 | 424 | 516 | 620 | 737 | 867 | - | - |
| 45 | 266 | 338 | 420 | 513 | 617 | 734 | 865 | - | - |
| 50 | 260 | 333 | 415 | 508 | 613 | 730 | 861 | - | - |
| 55 | - | 327 | 409 | 503 | 608 | 725 | 855 | - | - |
| 60 | - | - | 402 | 496 | 601 | 718 | 848 | - | - |
| 65 | - | - | - | 488 | 592 | 709 | 839 | - | - |
| 70 | - | - | - | 478 | 582 | 698 | 827 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.36 | 2.98 | 3.71 | 4.57 | 5.56 | 6.72 | 8.07 | - | - |
| 40 | 2.01 | 2.57 | 3.21 | 3.96 | 4.83 | 5.84 | 7.02 | - | - |
| 45 | 1.70 | 2.19 | 2.75 | 3.41 | 4.16 | 5.04 | 6.06 | - | - |
| 50 | 1.43 | 1.85 | 2.34 | 2.91 | 3.57 | 4.32 | 5.20 | - | - |
| 55 | - | 1.55 | 1.98 | 2.46 | 3.03 | 3.68 | 4.44 | - | - |
| 60 | - | - | 1.65 | 2.07 | 2.56 | 3.11 | 3.76 | - | - |
| 65 | - | - | - | 1.73 | 2.14 | 2.61 | 3.16 | - | - |
| 70 | - | - | - | 1.42 | 1.77 | 2.17 | 2.64 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 26 920 | W |
| Power input | 7 985 | W |
| Current consumption | 15.32 | A |
| Mass flow | 658 | kg/h |
| C.O.P. | 3.37 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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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Performance data at 50 Hz, EN 12900 rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 14 560 | 18 543 | 23 283 | 28 882 | 35 443 | 43 068 | 51 857 | 61 914 | - |
| 35 | 13 697 | 17 568 | 22 154 | 27 558 | 33 881 | 41 226 | 49 693 | 59 386 | - |
| 40 | 12 777 | 16 505 | 20 906 | 26 083 | 32 137 | 39 171 | 47 286 | 56 584 | - |
| 45 | - | 15 374 | 19 559 | 24 478 | 30 232 | 36 924 | 44 655 | 53 527 | - |
| 50 | - | - | 18 133 | 22 763 | 28 186 | 34 505 | 41 821 | 50 236 | - |
| 55 | - | - | - | 20 957 | 26 018 | 31 933 | 38 803 | 46 730 | - |
| 60 | - | - | - | - | 23 750 | 29 229 | 35 622 | 43 030 | - |
| 65 | - | - | - | - | 21 400 | 26 413 | 32 297 | 39 155 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|---|
| 30 | 6 584 | 6 668 | 6 729 | 6 769 | 6 791 | 6 796 | 6 786 | 6 764 | - |
| 35 | 7 344 | 7 442 | 7 516 | 7 567 | 7 599 | 7 612 | 7 610 | 7 593 | - |
| 40 | 8 191 | 8 303 | 8 389 | 8 451 | 8 492 | 8 514 | 8 518 | 8 506 | - |
| 45 | - | 9 268 | 9 366 | 9 439 | 9 489 | 9 518 | 9 528 | 9 522 | - |
| 50 | - | - | 10 466 | 10 549 | 10 608 | 10 644 | 10 660 | 10 658 | - |
| 55 | - | - | - | 11 800 | 11 866 | 11 910 | 11 931 | 11 933 | - |
| 60 | - | - | - | - | 13 283 | 13 333 | 13 360 | 13 365 | - |
| 65 | - | - | - | - | 14 877 | 14 933 | 14 964 | 14 973 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.98 | 14.05 | 14.06 | 14.04 | 13.98 | 13.89 | 13.78 | 13.65 | - |
| 35 | 14.79 | 14.88 | 14.93 | 14.95 | 14.93 | 14.89 | 14.83 | 14.75 | - |
| 40 | 15.72 | 15.84 | 15.93 | 15.97 | 15.99 | 15.99 | 15.97 | 15.93 | - |
| 45 | - | 16.97 | 17.07 | 17.14 | 17.19 | 17.21 | 17.22 | 17.22 | - |
| 50 | - | - | 18.42 | 18.50 | 18.57 | 18.61 | 18.64 | 18.67 | - |
| 55 | - | - | - | 20.09 | 20.16 | 20.22 | 20.26 | 20.31 | - |
| 60 | - | - | - | - | 22.02 | 22.07 | 22.13 | 22.18 | - |
| 65 | - | - | - | - | 24.17 | 24.22 | 24.27 | 24.32 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 30 | 306 | 384 | 475 | 580 | 700 | 839 | 996 | 1 175 | - |
| 35 | 302 | 381 | 473 | 578 | 700 | 839 | 997 | 1 177 | - |
| 40 | 297 | 377 | 469 | 575 | 696 | 836 | 994 | 1 174 | - |
| 45 | - | 371 | 462 | 568 | 690 | 829 | 987 | 1 166 | - |
| 50 | - | - | 454 | 560 | 681 | 819 | 976 | 1 155 | - |
| 55 | - | - | - | 549 | 668 | 806 | 962 | 1 139 | - |
| 60 | - | - | - | - | 654 | 789 | 944 | 1 119 | - |
| 65 | - | - | - | - | 636 | 770 | 922 | 1 095 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.21 | 2.78 | 3.46 | 4.27 | 5.22 | 6.34 | 7.64 | 9.15 | - |
| 35 | 1.87 | 2.36 | 2.95 | 3.64 | 4.46 | 5.42 | 6.53 | 7.82 | - |
| 40 | 1.56 | 1.99 | 2.49 | 3.09 | 3.78 | 4.60 | 5.55 | 6.65 | - |
| 45 | - | 1.66 | 2.09 | 2.59 | 3.19 | 3.88 | 4.69 | 5.62 | - |
| 50 | - | - | 1.73 | 2.16 | 2.66 | 3.24 | 3.92 | 4.71 | - |
| 55 | - | - | - | 1.78 | 2.19 | 2.68 | 3.25 | 3.92 | - |
| 60 | - | - | - | - | 1.79 | 2.19 | 2.67 | 3.22 | - |
| 65 | - | - | - | - | 1.44 | 1.77 | 2.16 | 2.62 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 34 505 | W |
| Power input | 10 644 | W |
| Current consumption | 18.61 | A |
| Mass flow | 819 | kg/h |
| C.O.P. | 3.24 | |



Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|------|-------|
| Sound power level | 80.5 | dB(A) |
| With acoustic hood | 73 | 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
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 15 616 | 19 865 | 24 915 | 30 874 | 37 848 | 45 944 | 55 268 | 65 926 | - |
| 35 | 14 762 | 18 909 | 23 816 | 29 591 | 36 339 | 44 168 | 53 185 | 63 495 | - |
| 40 | 13 848 | 17 862 | 22 594 | 28 152 | 34 643 | 42 174 | 50 853 | 60 785 | - |
| 45 | - | 16 744 | 21 269 | 26 579 | 32 781 | 39 983 | 48 292 | 57 816 | - |
| 50 | - | - | 19 863 | 24 893 | 30 774 | 37 615 | 45 525 | 54 610 | - |
| 55 | - | - | - | 23 115 | 28 644 | 35 094 | 42 574 | 51 191 | - |
| 60 | - | - | - | - | 26 416 | 32 444 | 39 464 | 47 584 | - |
| 65 | - | - | - | - | 24 116 | 29 692 | 36 224 | 43 821 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|---|
| 30 | 6 584 | 6 668 | 6 729 | 6 769 | 6 791 | 6 796 | 6 786 | 6 764 | - |
| 35 | 7 344 | 7 442 | 7 516 | 7 567 | 7 599 | 7 612 | 7 610 | 7 593 | - |
| 40 | 8 191 | 8 303 | 8 389 | 8 451 | 8 492 | 8 514 | 8 518 | 8 506 | - |
| 45 | - | 9 268 | 9 366 | 9 439 | 9 489 | 9 518 | 9 528 | 9 522 | - |
| 50 | - | - | 10 466 | 10 549 | 10 608 | 10 644 | 10 660 | 10 658 | - |
| 55 | - | - | - | 11 800 | 11 866 | 11 910 | 11 931 | 11 933 | - |
| 60 | - | - | - | - | 13 283 | 13 333 | 13 360 | 13 365 | - |
| 65 | - | - | - | - | 14 877 | 14 933 | 14 964 | 14 973 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.98 | 14.05 | 14.06 | 14.04 | 13.98 | 13.89 | 13.78 | 13.65 | - |
| 35 | 14.79 | 14.88 | 14.93 | 14.95 | 14.93 | 14.89 | 14.83 | 14.75 | - |
| 40 | 15.72 | 15.84 | 15.93 | 15.97 | 15.99 | 15.99 | 15.97 | 15.93 | - |
| 45 | - | 16.97 | 17.07 | 17.14 | 17.19 | 17.21 | 17.22 | 17.22 | - |
| 50 | - | - | 18.42 | 18.50 | 18.57 | 18.61 | 18.64 | 18.67 | - |
| 55 | - | - | - | 20.09 | 20.16 | 20.22 | 20.26 | 20.31 | - |
| 60 | - | - | - | - | 22.02 | 22.07 | 22.13 | 22.18 | - |
| 65 | - | - | - | - | 24.17 | 24.22 | 24.27 | 24.32 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 30 | 304 | 382 | 472 | 577 | 697 | 834 | 990 | 1 168 | - |
| 35 | 301 | 379 | 470 | 575 | 696 | 834 | 991 | 1 169 | - |
| 40 | 296 | 375 | 466 | 571 | 693 | 831 | 988 | 1 166 | - |
| 45 | - | 369 | 460 | 565 | 686 | 824 | 981 | 1 159 | - |
| 50 | - | - | 452 | 557 | 677 | 814 | 971 | 1 148 | - |
| 55 | - | - | - | 546 | 665 | 801 | 956 | 1 132 | - |
| 60 | - | - | - | - | 650 | 785 | 938 | 1 112 | - |
| 65 | - | - | - | - | 633 | 765 | 917 | 1 088 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.37 | 2.98 | 3.70 | 4.56 | 5.57 | 6.76 | 8.14 | 9.75 | - |
| 35 | 2.01 | 2.54 | 3.17 | 3.91 | 4.78 | 5.80 | 6.99 | 8.36 | - |
| 40 | 1.69 | 2.15 | 2.69 | 3.33 | 4.08 | 4.95 | 5.97 | 7.15 | - |
| 45 | - | 1.81 | 2.27 | 2.82 | 3.45 | 4.20 | 5.07 | 6.07 | - |
| 50 | - | - | 1.90 | 2.36 | 2.90 | 3.53 | 4.27 | 5.12 | - |
| 55 | - | - | - | 1.96 | 2.41 | 2.95 | 3.57 | 4.29 | - |
| 60 | - | - | - | - | 1.99 | 2.43 | 2.95 | 3.56 | - |
| 65 | - | - | - | - | 1.62 | 1.99 | 2.42 | 2.93 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 38 585 | W |
| Power input | 11 761 | W |
| Current consumption | 20.03 | A |
| Mass flow | 869 | kg/h |
| C.O.P. | 3.28 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|------|-------|
| Sound power level | 80.5 | dB(A) |
| With acoustic hood | 73 | 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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 17 450 | 22 103 | 27 661 | 34 221 | 41 879 | 50 732 | 60 875 | 72 406 | - |
| 35 | 16 372 | 20 886 | 26 260 | 32 589 | 39 969 | 48 496 | 58 265 | 69 374 | - |
| 40 | 15 268 | 19 613 | 24 772 | 30 838 | 37 909 | 46 078 | 55 442 | 66 097 | - |
| 45 | - | 18 284 | 23 196 | 28 969 | 35 699 | 43 480 | 52 407 | 62 576 | - |
| 50 | - | - | 21 533 | 26 982 | 33 340 | 40 700 | 49 158 | 58 808 | - |
| 55 | - | - | - | 24 877 | 30 831 | 37 738 | 45 694 | 54 793 | - |
| 60 | - | - | - | - | 28 170 | 34 593 | 42 013 | 50 526 | - |
| 65 | - | - | - | - | 25 355 | 31 258 | 38 108 | 45 997 | - |

Power input in W

| | | | | | | | | | |
|----|-------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 8 019 | 8 199 | 8 350 | 8 462 | 8 524 | 8 525 | 8 454 | 8 300 | - |
| 35 | 8 905 | 9 090 | 9 249 | 9 370 | 9 444 | 9 458 | 9 402 | 9 266 | - |
| 40 | 9 880 | 10 072 | 10 239 | 10 372 | 10 458 | 10 486 | 10 447 | 10 330 | - |
| 45 | - | 11 153 | 11 330 | 11 475 | 11 575 | 11 620 | 11 599 | 11 501 | - |
| 50 | - | - | 12 530 | 12 688 | 12 803 | 12 866 | 12 864 | 12 788 | - |
| 55 | - | - | - | 14 020 | 14 152 | 14 234 | 14 253 | 14 199 | - |
| 60 | - | - | - | - | 15 630 | 15 732 | 15 773 | 15 743 | - |
| 65 | - | - | - | - | 17 246 | 17 369 | 17 433 | 17 429 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.18 | 13.37 | 13.54 | 13.68 | 13.77 | 13.82 | 13.81 | 13.73 | - |
| 35 | 14.11 | 14.30 | 14.48 | 14.63 | 14.74 | 14.80 | 14.81 | 14.75 | - |
| 40 | 15.19 | 15.39 | 15.58 | 15.74 | 15.87 | 15.95 | 15.98 | 15.94 | - |
| 45 | - | 16.67 | 16.87 | 17.05 | 17.19 | 17.29 | 17.35 | 17.33 | - |
| 50 | - | - | 18.37 | 18.56 | 18.73 | 18.85 | 18.93 | 18.94 | - |
| 55 | - | - | - | 20.31 | 20.50 | 20.65 | 20.75 | 20.79 | - |
| 60 | - | - | - | - | 22.52 | 22.70 | 22.83 | 22.90 | - |
| 65 | - | - | - | - | 24.83 | 25.03 | 25.19 | 25.30 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|-------|---|
| 30 | 364 | 452 | 556 | 675 | 812 | 969 | 1 146 | 1 345 | - |
| 35 | 358 | 448 | 553 | 674 | 812 | 969 | 1 148 | 1 348 | - |
| 40 | 352 | 443 | 549 | 670 | 809 | 968 | 1 146 | 1 347 | - |
| 45 | - | 437 | 543 | 665 | 805 | 963 | 1 142 | 1 343 | - |
| 50 | - | - | 537 | 659 | 798 | 956 | 1 135 | 1 335 | - |
| 55 | - | - | - | 650 | 789 | 947 | 1 125 | 1 325 | - |
| 60 | - | - | - | - | 778 | 934 | 1 111 | 1 310 | - |
| 65 | - | - | - | - | 764 | 920 | 1 095 | 1 292 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.18 | 2.70 | 3.31 | 4.04 | 4.91 | 5.95 | 7.20 | 8.72 | - |
| 35 | 1.84 | 2.30 | 2.84 | 3.48 | 4.23 | 5.13 | 6.20 | 7.49 | - |
| 40 | 1.55 | 1.95 | 2.42 | 2.97 | 3.63 | 4.39 | 5.31 | 6.40 | - |
| 45 | - | 1.64 | 2.05 | 2.52 | 3.08 | 3.74 | 4.52 | 5.44 | - |
| 50 | - | - | 1.72 | 2.13 | 2.60 | 3.16 | 3.82 | 4.60 | - |
| 55 | - | - | - | 1.77 | 2.18 | 2.65 | 3.21 | 3.86 | - |
| 60 | - | - | - | - | 1.80 | 2.20 | 2.66 | 3.21 | - |
| 65 | - | - | - | - | 1.47 | 1.80 | 2.19 | 2.64 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 40 700 | W |
| Power input | 12 866 | W |
| Current consumption | 18.85 | A |
| Mass flow | 956 | kg/h |
| C.O.P. | 3.16 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 75 | 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

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 18 716 | 23 678 | 29 600 | 36 581 | 44 721 | 54 121 | 64 880 | 77 098 | - |
| 35 | 17 645 | 22 481 | 28 231 | 34 993 | 42 869 | 51 957 | 62 359 | 74 174 | - |
| 40 | 16 548 | 21 227 | 26 772 | 33 285 | 40 864 | 49 611 | 59 624 | 71 004 | - |
| 45 | - | 19 914 | 25 225 | 31 456 | 38 708 | 47 081 | 56 675 | 67 589 | - |
| 50 | - | - | 23 588 | 29 507 | 36 401 | 44 369 | 53 512 | 63 929 | - |
| 55 | - | - | - | 27 439 | 33 942 | 41 474 | 50 135 | 60 023 | - |
| 60 | - | - | - | - | 31 333 | 38 398 | 46 544 | 55 873 | - |
| 65 | - | - | - | - | 28 573 | 35 139 | 42 741 | 51 478 | - |

Power input in W

| | | | | | | | | | |
|----|-------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 8 019 | 8 199 | 8 350 | 8 462 | 8 524 | 8 525 | 8 454 | 8 300 | - |
| 35 | 8 905 | 9 090 | 9 249 | 9 370 | 9 444 | 9 458 | 9 402 | 9 266 | - |
| 40 | 9 880 | 10 072 | 10 239 | 10 372 | 10 458 | 10 486 | 10 447 | 10 330 | - |
| 45 | - | 11 153 | 11 330 | 11 475 | 11 575 | 11 620 | 11 599 | 11 501 | - |
| 50 | - | - | 12 530 | 12 688 | 12 803 | 12 866 | 12 864 | 12 788 | - |
| 55 | - | - | - | 14 020 | 14 152 | 14 234 | 14 253 | 14 199 | - |
| 60 | - | - | - | - | 15 630 | 15 732 | 15 773 | 15 743 | - |
| 65 | - | - | - | - | 17 246 | 17 369 | 17 433 | 17 429 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.18 | 13.37 | 13.54 | 13.68 | 13.77 | 13.82 | 13.81 | 13.73 | - |
| 35 | 14.11 | 14.30 | 14.48 | 14.63 | 14.74 | 14.80 | 14.81 | 14.75 | - |
| 40 | 15.19 | 15.39 | 15.58 | 15.74 | 15.87 | 15.95 | 15.98 | 15.94 | - |
| 45 | - | 16.67 | 16.87 | 17.05 | 17.19 | 17.29 | 17.35 | 17.33 | - |
| 50 | - | - | 18.37 | 18.56 | 18.73 | 18.85 | 18.93 | 18.94 | - |
| 55 | - | - | - | 20.31 | 20.50 | 20.65 | 20.75 | 20.79 | - |
| 60 | - | - | - | - | 22.52 | 22.70 | 22.83 | 22.90 | - |
| 65 | - | - | - | - | 24.83 | 25.03 | 25.19 | 25.30 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|-------|---|
| 30 | 362 | 450 | 553 | 671 | 808 | 963 | 1 139 | 1 337 | - |
| 35 | 356 | 446 | 550 | 670 | 807 | 964 | 1 141 | 1 340 | - |
| 40 | 350 | 441 | 546 | 667 | 805 | 962 | 1 139 | 1 339 | - |
| 45 | - | 435 | 540 | 662 | 800 | 958 | 1 135 | 1 335 | - |
| 50 | - | - | 534 | 655 | 794 | 951 | 1 128 | 1 327 | - |
| 55 | - | - | - | 646 | 785 | 941 | 1 118 | 1 316 | - |
| 60 | - | - | - | - | 773 | 929 | 1 105 | 1 302 | - |
| 65 | - | - | - | - | 760 | 914 | 1 089 | 1 284 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.33 | 2.89 | 3.54 | 4.32 | 5.25 | 6.35 | 7.67 | 9.29 | - |
| 35 | 1.98 | 2.47 | 3.05 | 3.73 | 4.54 | 5.49 | 6.63 | 8.01 | - |
| 40 | 1.67 | 2.11 | 2.61 | 3.21 | 3.91 | 4.73 | 5.71 | 6.87 | - |
| 45 | - | 1.79 | 2.23 | 2.74 | 3.34 | 4.05 | 4.89 | 5.88 | - |
| 50 | - | - | 1.88 | 2.33 | 2.84 | 3.45 | 4.16 | 5.00 | - |
| 55 | - | - | - | 1.96 | 2.40 | 2.91 | 3.52 | 4.23 | - |
| 60 | - | - | - | - | 2.00 | 2.44 | 2.95 | 3.55 | - |
| 65 | - | - | - | - | 1.66 | 2.02 | 2.45 | 2.95 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 45 523 | W |
| Power input | 14 078 | W |
| Current consumption | 20.47 | A |
| Mass flow | 1 018 | kg/h |
| C.O.P. | 3.23 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 75 | 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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Performance data at 60 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 14 142 | 17 876 | 22 304 | 27 505 | 33 553 | 40 525 | 48 498 | - | - |
| 40 | 13 271 | 16 874 | 21 143 | 26 153 | 31 982 | 38 704 | 46 397 | - | - |
| 45 | 12 372 | 15 826 | 19 917 | 24 720 | 30 310 | 36 765 | 44 160 | - | - |
| 50 | 11 449 | 14 737 | 18 631 | 23 208 | 28 543 | 34 711 | 41 789 | - | - |
| 55 | - | 13 610 | 17 291 | 21 624 | 26 684 | 32 547 | 39 289 | - | - |
| 60 | - | - | 15 899 | 19 970 | 24 737 | 30 277 | 36 663 | - | - |
| 65 | - | - | - | 18 250 | 22 705 | 27 901 | 33 913 | - | - |
| 70 | - | - | - | 16 467 | 20 591 | 25 423 | 31 038 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 228 | 6 319 | 6 401 | 6 470 | 6 524 | 6 558 | 6 569 | - | - |
| 40 | 6 854 | 6 951 | 7 040 | 7 118 | 7 181 | 7 226 | 7 249 | - | - |
| 45 | 7 558 | 7 661 | 7 758 | 7 844 | 7 918 | 7 974 | 8 010 | - | - |
| 50 | 8 345 | 8 455 | 8 560 | 8 656 | 8 741 | 8 810 | 8 860 | - | - |
| 55 | - | 9 338 | 9 453 | 9 560 | 9 657 | 9 739 | 9 803 | - | - |
| 60 | - | - | 10 442 | 10 561 | 10 670 | 10 766 | 10 846 | - | - |
| 65 | - | - | - | 11 665 | 11 788 | 11 899 | 11 995 | - | - |
| 70 | - | - | - | 12 879 | 13 016 | 13 143 | 13 256 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 11.46 | 11.58 | 11.68 | 11.77 | 11.83 | 11.86 | 11.86 | - | - |
| 40 | 12.02 | 12.14 | 12.25 | 12.35 | 12.42 | 12.47 | 12.49 | - | - |
| 45 | 12.69 | 12.82 | 12.95 | 13.06 | 13.15 | 13.21 | 13.25 | - | - |
| 50 | 13.50 | 13.64 | 13.78 | 13.90 | 14.01 | 14.09 | 14.15 | - | - |
| 55 | - | 14.61 | 14.76 | 14.90 | 15.02 | 15.13 | 15.20 | - | - |
| 60 | - | - | 15.91 | 16.07 | 16.21 | 16.33 | 16.43 | - | - |
| 65 | - | - | - | 17.41 | 17.58 | 17.72 | 17.85 | - | - |
| 70 | - | - | - | 18.96 | 19.14 | 19.31 | 19.46 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|---|---|
| 35 | 343 | 424 | 518 | 625 | 748 | 887 | 1 043 | - | - |
| 40 | 338 | 420 | 515 | 623 | 747 | 887 | 1 044 | - | - |
| 45 | 333 | 416 | 511 | 620 | 744 | 885 | 1 042 | - | - |
| 50 | 327 | 410 | 506 | 616 | 740 | 881 | 1 039 | - | - |
| 55 | - | 404 | 500 | 610 | 734 | 875 | 1 033 | - | - |
| 60 | - | - | 492 | 602 | 727 | 867 | 1 025 | - | - |
| 65 | - | - | - | 593 | 717 | 857 | 1 015 | - | - |
| 70 | - | - | - | 583 | 706 | 846 | 1 002 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.27 | 2.83 | 3.48 | 4.25 | 5.14 | 6.18 | 7.38 | - | - |
| 40 | 1.94 | 2.43 | 3.00 | 3.67 | 4.45 | 5.36 | 6.40 | - | - |
| 45 | 1.64 | 2.07 | 2.57 | 3.15 | 3.83 | 4.61 | 5.51 | - | - |
| 50 | 1.37 | 1.74 | 2.18 | 2.68 | 3.27 | 3.94 | 4.72 | - | - |
| 55 | - | 1.46 | 1.83 | 2.26 | 2.76 | 3.34 | 4.01 | - | - |
| 60 | - | - | 1.52 | 1.89 | 2.32 | 2.81 | 3.38 | - | - |
| 65 | - | - | - | 1.56 | 1.93 | 2.34 | 2.83 | - | - |
| 70 | - | - | - | 1.28 | 1.58 | 1.93 | 2.34 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 28 543 | W |
| Power input | 8 741 | W |
| Current consumption | 14.01 | A |
| Mass flow | 740 | kg/h |
| C.O.P. | 3.27 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 15 317 | 19 328 | 24 078 | 29 646 | 36 110 | 43 552 | 52 049 | - | - |
| 40 | 14 453 | 18 341 | 22 939 | 28 326 | 34 582 | 41 785 | 50 015 | - | - |
| 45 | 13 557 | 17 305 | 21 733 | 26 922 | 32 950 | 39 897 | 47 841 | - | - |
| 50 | 12 636 | 16 225 | 20 466 | 25 438 | 31 220 | 37 892 | 45 533 | - | - |
| 55 | - | 15 106 | 19 140 | 23 877 | 29 396 | 35 775 | 43 094 | - | - |
| 60 | - | - | 17 763 | 22 246 | 27 483 | 33 551 | 40 530 | - | - |
| 65 | - | - | - | 20 549 | 25 486 | 31 225 | 37 846 | - | - |
| 70 | - | - | - | 18 791 | 23 409 | 28 801 | 35 045 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 228 | 6 319 | 6 401 | 6 470 | 6 524 | 6 558 | 6 569 | - | - |
| 40 | 6 854 | 6 951 | 7 040 | 7 118 | 7 181 | 7 226 | 7 249 | - | - |
| 45 | 7 558 | 7 661 | 7 758 | 7 844 | 7 918 | 7 974 | 8 010 | - | - |
| 50 | 8 345 | 8 455 | 8 560 | 8 656 | 8 741 | 8 810 | 8 860 | - | - |
| 55 | - | 9 338 | 9 453 | 9 560 | 9 657 | 9 739 | 9 803 | - | - |
| 60 | - | - | 10 442 | 10 561 | 10 670 | 10 766 | 10 846 | - | - |
| 65 | - | - | - | 11 665 | 11 788 | 11 899 | 11 995 | - | - |
| 70 | - | - | - | 12 879 | 13 016 | 13 143 | 13 256 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 11.46 | 11.58 | 11.68 | 11.77 | 11.83 | 11.86 | 11.86 | - | - |
| 40 | 12.02 | 12.14 | 12.25 | 12.35 | 12.42 | 12.47 | 12.49 | - | - |
| 45 | 12.69 | 12.82 | 12.95 | 13.06 | 13.15 | 13.21 | 13.25 | - | - |
| 50 | 13.50 | 13.64 | 13.78 | 13.90 | 14.01 | 14.09 | 14.15 | - | - |
| 55 | - | 14.61 | 14.76 | 14.90 | 15.02 | 15.13 | 15.20 | - | - |
| 60 | - | - | 15.91 | 16.07 | 16.21 | 16.33 | 16.43 | - | - |
| 65 | - | - | - | 17.41 | 17.58 | 17.72 | 17.85 | - | - |
| 70 | - | - | - | 18.96 | 19.14 | 19.31 | 19.46 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|---|---|
| 35 | 341 | 422 | 515 | 622 | 744 | 882 | 1 038 | - | - |
| 40 | 336 | 418 | 512 | 620 | 743 | 882 | 1 038 | - | - |
| 45 | 331 | 414 | 508 | 617 | 740 | 880 | 1 037 | - | - |
| 50 | 325 | 408 | 503 | 612 | 736 | 876 | 1 033 | - | - |
| 55 | - | 402 | 497 | 606 | 730 | 870 | 1 027 | - | - |
| 60 | - | - | 490 | 599 | 723 | 863 | 1 019 | - | - |
| 65 | - | - | - | 590 | 714 | 853 | 1 009 | - | - |
| 70 | - | - | - | 580 | 702 | 841 | 997 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.46 | 3.06 | 3.76 | 4.58 | 5.53 | 6.64 | 7.92 | - | - |
| 40 | 2.11 | 2.64 | 3.26 | 3.98 | 4.82 | 5.78 | 6.90 | - | - |
| 45 | 1.79 | 2.26 | 2.80 | 3.43 | 4.16 | 5.00 | 5.97 | - | - |
| 50 | 1.51 | 1.92 | 2.39 | 2.94 | 3.57 | 4.30 | 5.14 | - | - |
| 55 | - | 1.62 | 2.02 | 2.50 | 3.04 | 3.67 | 4.40 | - | - |
| 60 | - | - | 1.70 | 2.11 | 2.58 | 3.12 | 3.74 | - | - |
| 65 | - | - | - | 1.76 | 2.16 | 2.62 | 3.16 | - | - |
| 70 | - | - | - | 1.46 | 1.80 | 2.19 | 2.64 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 32 331 | W |
| Power input | 9 579 | W |
| Current consumption | 14.94 | A |
| Mass flow | 791 | kg/h |
| C.O.P. | 3.38 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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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Performance data at 60 Hz, EN 12900 rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 14 142 | 17 876 | 22 304 | 27 505 | 33 553 | 40 525 | 48 498 | - | - |
| 40 | 13 271 | 16 874 | 21 143 | 26 153 | 31 982 | 38 704 | 46 397 | - | - |
| 45 | 12 372 | 15 826 | 19 917 | 24 720 | 30 310 | 36 765 | 44 160 | - | - |
| 50 | 11 449 | 14 737 | 18 631 | 23 208 | 28 543 | 34 711 | 41 789 | - | - |
| 55 | - | 13 610 | 17 291 | 21 624 | 26 684 | 32 547 | 39 289 | - | - |
| 60 | - | - | 15 899 | 19 970 | 24 737 | 30 277 | 36 663 | - | - |
| 65 | - | - | - | 18 250 | 22 705 | 27 901 | 33 913 | - | - |
| 70 | - | - | - | 16 467 | 20 591 | 25 423 | 31 038 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 228 | 6 319 | 6 401 | 6 470 | 6 524 | 6 558 | 6 569 | - | - |
| 40 | 6 854 | 6 951 | 7 040 | 7 118 | 7 181 | 7 226 | 7 249 | - | - |
| 45 | 7 558 | 7 661 | 7 758 | 7 844 | 7 918 | 7 974 | 8 010 | - | - |
| 50 | 8 345 | 8 455 | 8 560 | 8 656 | 8 741 | 8 810 | 8 860 | - | - |
| 55 | - | 9 338 | 9 453 | 9 560 | 9 657 | 9 739 | 9 803 | - | - |
| 60 | - | - | 10 442 | 10 561 | 10 670 | 10 766 | 10 846 | - | - |
| 65 | - | - | - | 11 665 | 11 788 | 11 899 | 11 995 | - | - |
| 70 | - | - | - | 12 879 | 13 016 | 13 143 | 13 256 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 11.46 | 11.58 | 11.68 | 11.77 | 11.83 | 11.86 | 11.86 | - | - |
| 40 | 12.02 | 12.14 | 12.25 | 12.35 | 12.42 | 12.47 | 12.49 | - | - |
| 45 | 12.69 | 12.82 | 12.95 | 13.06 | 13.15 | 13.21 | 13.25 | - | - |
| 50 | 13.50 | 13.64 | 13.78 | 13.90 | 14.01 | 14.09 | 14.15 | - | - |
| 55 | - | 14.61 | 14.76 | 14.90 | 15.02 | 15.13 | 15.20 | - | - |
| 60 | - | - | 15.91 | 16.07 | 16.21 | 16.33 | 16.43 | - | - |
| 65 | - | - | - | 17.41 | 17.58 | 17.72 | 17.85 | - | - |
| 70 | - | - | - | 18.96 | 19.14 | 19.31 | 19.46 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|---|---|
| 35 | 343 | 424 | 518 | 625 | 748 | 887 | 1 043 | - | - |
| 40 | 338 | 420 | 515 | 623 | 747 | 887 | 1 044 | - | - |
| 45 | 333 | 416 | 511 | 620 | 744 | 885 | 1 042 | - | - |
| 50 | 327 | 410 | 506 | 616 | 740 | 881 | 1 039 | - | - |
| 55 | - | 404 | 500 | 610 | 734 | 875 | 1 033 | - | - |
| 60 | - | - | 492 | 602 | 727 | 867 | 1 025 | - | - |
| 65 | - | - | - | 593 | 717 | 857 | 1 015 | - | - |
| 70 | - | - | - | 583 | 706 | 846 | 1 002 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.27 | 2.83 | 3.48 | 4.25 | 5.14 | 6.18 | 7.38 | - | - |
| 40 | 1.94 | 2.43 | 3.00 | 3.67 | 4.45 | 5.36 | 6.40 | - | - |
| 45 | 1.64 | 2.07 | 2.57 | 3.15 | 3.83 | 4.61 | 5.51 | - | - |
| 50 | 1.37 | 1.74 | 2.18 | 2.68 | 3.27 | 3.94 | 4.72 | - | - |
| 55 | - | 1.46 | 1.83 | 2.26 | 2.76 | 3.34 | 4.01 | - | - |
| 60 | - | - | 1.52 | 1.89 | 2.32 | 2.81 | 3.38 | - | - |
| 65 | - | - | - | 1.56 | 1.93 | 2.34 | 2.83 | - | - |
| 70 | - | - | - | 1.28 | 1.58 | 1.93 | 2.34 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 28 543 | W |
| Power input | 8 741 | W |
| Current consumption | 14.01 | A |
| Mass flow | 740 | kg/h |
| C.O.P. | 3.27 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 15 317 | 19 328 | 24 078 | 29 646 | 36 110 | 43 552 | 52 049 | - | - |
| 40 | 14 453 | 18 341 | 22 939 | 28 326 | 34 582 | 41 785 | 50 015 | - | - |
| 45 | 13 557 | 17 305 | 21 733 | 26 922 | 32 950 | 39 897 | 47 841 | - | - |
| 50 | 12 636 | 16 225 | 20 466 | 25 438 | 31 220 | 37 892 | 45 533 | - | - |
| 55 | - | 15 106 | 19 140 | 23 877 | 29 396 | 35 775 | 43 094 | - | - |
| 60 | - | - | 17 763 | 22 246 | 27 483 | 33 551 | 40 530 | - | - |
| 65 | - | - | - | 20 549 | 25 486 | 31 225 | 37 846 | - | - |
| 70 | - | - | - | 18 791 | 23 409 | 28 801 | 35 045 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 228 | 6 319 | 6 401 | 6 470 | 6 524 | 6 558 | 6 569 | - | - |
| 40 | 6 854 | 6 951 | 7 040 | 7 118 | 7 181 | 7 226 | 7 249 | - | - |
| 45 | 7 558 | 7 661 | 7 758 | 7 844 | 7 918 | 7 974 | 8 010 | - | - |
| 50 | 8 345 | 8 455 | 8 560 | 8 656 | 8 741 | 8 810 | 8 860 | - | - |
| 55 | - | 9 338 | 9 453 | 9 560 | 9 657 | 9 739 | 9 803 | - | - |
| 60 | - | - | 10 442 | 10 561 | 10 670 | 10 766 | 10 846 | - | - |
| 65 | - | - | - | 11 665 | 11 788 | 11 899 | 11 995 | - | - |
| 70 | - | - | - | 12 879 | 13 016 | 13 143 | 13 256 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 11.46 | 11.58 | 11.68 | 11.77 | 11.83 | 11.86 | 11.86 | - | - |
| 40 | 12.02 | 12.14 | 12.25 | 12.35 | 12.42 | 12.47 | 12.49 | - | - |
| 45 | 12.69 | 12.82 | 12.95 | 13.06 | 13.15 | 13.21 | 13.25 | - | - |
| 50 | 13.50 | 13.64 | 13.78 | 13.90 | 14.01 | 14.09 | 14.15 | - | - |
| 55 | - | 14.61 | 14.76 | 14.90 | 15.02 | 15.13 | 15.20 | - | - |
| 60 | - | - | 15.91 | 16.07 | 16.21 | 16.33 | 16.43 | - | - |
| 65 | - | - | - | 17.41 | 17.58 | 17.72 | 17.85 | - | - |
| 70 | - | - | - | 18.96 | 19.14 | 19.31 | 19.46 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|---|---|
| 35 | 341 | 422 | 515 | 622 | 744 | 882 | 1 038 | - | - |
| 40 | 336 | 418 | 512 | 620 | 743 | 882 | 1 038 | - | - |
| 45 | 331 | 414 | 508 | 617 | 740 | 880 | 1 037 | - | - |
| 50 | 325 | 408 | 503 | 612 | 736 | 876 | 1 033 | - | - |
| 55 | - | 402 | 497 | 606 | 730 | 870 | 1 027 | - | - |
| 60 | - | - | 490 | 599 | 723 | 863 | 1 019 | - | - |
| 65 | - | - | - | 590 | 714 | 853 | 1 009 | - | - |
| 70 | - | - | - | 580 | 702 | 841 | 997 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.46 | 3.06 | 3.76 | 4.58 | 5.53 | 6.64 | 7.92 | - | - |
| 40 | 2.11 | 2.64 | 3.26 | 3.98 | 4.82 | 5.78 | 6.90 | - | - |
| 45 | 1.79 | 2.26 | 2.80 | 3.43 | 4.16 | 5.00 | 5.97 | - | - |
| 50 | 1.51 | 1.92 | 2.39 | 2.94 | 3.57 | 4.30 | 5.14 | - | - |
| 55 | - | 1.62 | 2.02 | 2.50 | 3.04 | 3.67 | 4.40 | - | - |
| 60 | - | - | 1.70 | 2.11 | 2.58 | 3.12 | 3.74 | - | - |
| 65 | - | - | - | 1.76 | 2.16 | 2.62 | 3.16 | - | - |
| 70 | - | - | - | 1.46 | 1.80 | 2.19 | 2.64 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 32 331 | W |
| Power input | 9 579 | W |
| Current consumption | 14.94 | A |
| Mass flow | 791 | kg/h |
| C.O.P. | 3.38 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | 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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 17 450 | 22 103 | 27 661 | 34 221 | 41 879 | 50 732 | 60 875 | 72 406 | - |
| 35 | 16 372 | 20 886 | 26 260 | 32 589 | 39 969 | 48 496 | 58 265 | 69 374 | - |
| 40 | 15 268 | 19 613 | 24 772 | 30 838 | 37 909 | 46 078 | 55 442 | 66 097 | - |
| 45 | - | 18 284 | 23 196 | 28 969 | 35 699 | 43 480 | 52 407 | 62 576 | - |
| 50 | - | - | 21 533 | 26 982 | 33 340 | 40 700 | 49 158 | 58 808 | - |
| 55 | - | - | - | 24 877 | 30 831 | 37 738 | 45 694 | 54 793 | - |
| 60 | - | - | - | - | 28 170 | 34 593 | 42 013 | 50 526 | - |
| 65 | - | - | - | - | 25 355 | 31 258 | 38 108 | 45 997 | - |

Power input in W

| | | | | | | | | | |
|----|-------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 8 019 | 8 199 | 8 350 | 8 462 | 8 524 | 8 525 | 8 454 | 8 300 | - |
| 35 | 8 905 | 9 090 | 9 249 | 9 370 | 9 444 | 9 458 | 9 402 | 9 266 | - |
| 40 | 9 880 | 10 072 | 10 239 | 10 372 | 10 458 | 10 486 | 10 447 | 10 330 | - |
| 45 | - | 11 153 | 11 330 | 11 475 | 11 575 | 11 620 | 11 599 | 11 501 | - |
| 50 | - | - | 12 530 | 12 688 | 12 803 | 12 866 | 12 864 | 12 788 | - |
| 55 | - | - | - | 14 020 | 14 152 | 14 234 | 14 253 | 14 199 | - |
| 60 | - | - | - | - | 15 630 | 15 732 | 15 773 | 15 743 | - |
| 65 | - | - | - | - | 17 246 | 17 369 | 17 433 | 17 429 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.18 | 13.37 | 13.54 | 13.68 | 13.77 | 13.82 | 13.81 | 13.73 | - |
| 35 | 14.11 | 14.30 | 14.48 | 14.63 | 14.74 | 14.80 | 14.81 | 14.75 | - |
| 40 | 15.19 | 15.39 | 15.58 | 15.74 | 15.87 | 15.95 | 15.98 | 15.94 | - |
| 45 | - | 16.67 | 16.87 | 17.05 | 17.19 | 17.29 | 17.35 | 17.33 | - |
| 50 | - | - | 18.37 | 18.56 | 18.73 | 18.85 | 18.93 | 18.94 | - |
| 55 | - | - | - | 20.31 | 20.50 | 20.65 | 20.75 | 20.79 | - |
| 60 | - | - | - | - | 22.52 | 22.70 | 22.83 | 22.90 | - |
| 65 | - | - | - | - | 24.83 | 25.03 | 25.19 | 25.30 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|-------|---|
| 30 | 364 | 452 | 556 | 675 | 812 | 969 | 1 146 | 1 345 | - |
| 35 | 358 | 448 | 553 | 674 | 812 | 969 | 1 148 | 1 348 | - |
| 40 | 352 | 443 | 549 | 670 | 809 | 968 | 1 146 | 1 347 | - |
| 45 | - | 437 | 543 | 665 | 805 | 963 | 1 142 | 1 343 | - |
| 50 | - | - | 537 | 659 | 798 | 956 | 1 135 | 1 335 | - |
| 55 | - | - | - | 650 | 789 | 947 | 1 125 | 1 325 | - |
| 60 | - | - | - | - | 778 | 934 | 1 111 | 1 310 | - |
| 65 | - | - | - | - | 764 | 920 | 1 095 | 1 292 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.18 | 2.70 | 3.31 | 4.04 | 4.91 | 5.95 | 7.20 | 8.72 | - |
| 35 | 1.84 | 2.30 | 2.84 | 3.48 | 4.23 | 5.13 | 6.20 | 7.49 | - |
| 40 | 1.55 | 1.95 | 2.42 | 2.97 | 3.63 | 4.39 | 5.31 | 6.40 | - |
| 45 | - | 1.64 | 2.05 | 2.52 | 3.08 | 3.74 | 4.52 | 5.44 | - |
| 50 | - | - | 1.72 | 2.13 | 2.60 | 3.16 | 3.82 | 4.60 | - |
| 55 | - | - | - | 1.77 | 2.18 | 2.65 | 3.21 | 3.86 | - |
| 60 | - | - | - | - | 1.80 | 2.20 | 2.66 | 3.21 | - |
| 65 | - | - | - | - | 1.47 | 1.80 | 2.19 | 2.64 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 40 700 | W |
| Power input | 12 866 | W |
| Current consumption | 18.85 | A |
| Mass flow | 956 | kg/h |
| C.O.P. | 3.16 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 75 | 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

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 18 716 | 23 678 | 29 600 | 36 581 | 44 721 | 54 121 | 64 880 | 77 098 | - |
| 35 | 17 645 | 22 481 | 28 231 | 34 993 | 42 869 | 51 957 | 62 359 | 74 174 | - |
| 40 | 16 548 | 21 227 | 26 772 | 33 285 | 40 864 | 49 611 | 59 624 | 71 004 | - |
| 45 | - | 19 914 | 25 225 | 31 456 | 38 708 | 47 081 | 56 675 | 67 589 | - |
| 50 | - | - | 23 588 | 29 507 | 36 401 | 44 369 | 53 512 | 63 929 | - |
| 55 | - | - | - | 27 439 | 33 942 | 41 474 | 50 135 | 60 023 | - |
| 60 | - | - | - | - | 31 333 | 38 398 | 46 544 | 55 873 | - |
| 65 | - | - | - | - | 28 573 | 35 139 | 42 741 | 51 478 | - |

Power input in W

| | | | | | | | | | |
|----|-------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 8 019 | 8 199 | 8 350 | 8 462 | 8 524 | 8 525 | 8 454 | 8 300 | - |
| 35 | 8 905 | 9 090 | 9 249 | 9 370 | 9 444 | 9 458 | 9 402 | 9 266 | - |
| 40 | 9 880 | 10 072 | 10 239 | 10 372 | 10 458 | 10 486 | 10 447 | 10 330 | - |
| 45 | - | 11 153 | 11 330 | 11 475 | 11 575 | 11 620 | 11 599 | 11 501 | - |
| 50 | - | - | 12 530 | 12 688 | 12 803 | 12 866 | 12 864 | 12 788 | - |
| 55 | - | - | - | 14 020 | 14 152 | 14 234 | 14 253 | 14 199 | - |
| 60 | - | - | - | - | 15 630 | 15 732 | 15 773 | 15 743 | - |
| 65 | - | - | - | - | 17 246 | 17 369 | 17 433 | 17 429 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.18 | 13.37 | 13.54 | 13.68 | 13.77 | 13.82 | 13.81 | 13.73 | - |
| 35 | 14.11 | 14.30 | 14.48 | 14.63 | 14.74 | 14.80 | 14.81 | 14.75 | - |
| 40 | 15.19 | 15.39 | 15.58 | 15.74 | 15.87 | 15.95 | 15.98 | 15.94 | - |
| 45 | - | 16.67 | 16.87 | 17.05 | 17.19 | 17.29 | 17.35 | 17.33 | - |
| 50 | - | - | 18.37 | 18.56 | 18.73 | 18.85 | 18.93 | 18.94 | - |
| 55 | - | - | - | 20.31 | 20.50 | 20.65 | 20.75 | 20.79 | - |
| 60 | - | - | - | - | 22.52 | 22.70 | 22.83 | 22.90 | - |
| 65 | - | - | - | - | 24.83 | 25.03 | 25.19 | 25.30 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-------|-------|---|
| 30 | 362 | 450 | 553 | 671 | 808 | 963 | 1 139 | 1 337 | - |
| 35 | 356 | 446 | 550 | 670 | 807 | 964 | 1 141 | 1 340 | - |
| 40 | 350 | 441 | 546 | 667 | 805 | 962 | 1 139 | 1 339 | - |
| 45 | - | 435 | 540 | 662 | 800 | 958 | 1 135 | 1 335 | - |
| 50 | - | - | 534 | 655 | 794 | 951 | 1 128 | 1 327 | - |
| 55 | - | - | - | 646 | 785 | 941 | 1 118 | 1 316 | - |
| 60 | - | - | - | - | 773 | 929 | 1 105 | 1 302 | - |
| 65 | - | - | - | - | 760 | 914 | 1 089 | 1 284 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.33 | 2.89 | 3.54 | 4.32 | 5.25 | 6.35 | 7.67 | 9.29 | - |
| 35 | 1.98 | 2.47 | 3.05 | 3.73 | 4.54 | 5.49 | 6.63 | 8.01 | - |
| 40 | 1.67 | 2.11 | 2.61 | 3.21 | 3.91 | 4.73 | 5.71 | 6.87 | - |
| 45 | - | 1.79 | 2.23 | 2.74 | 3.34 | 4.05 | 4.89 | 5.88 | - |
| 50 | - | - | 1.88 | 2.33 | 2.84 | 3.45 | 4.16 | 5.00 | - |
| 55 | - | - | - | 1.96 | 2.40 | 2.91 | 3.52 | 4.23 | - |
| 60 | - | - | - | - | 2.00 | 2.44 | 2.95 | 3.55 | - |
| 65 | - | - | - | - | 1.66 | 2.02 | 2.45 | 2.95 | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 45 523 | W |
| Power input | 14 078 | W |
| Current consumption | 20.47 | A |
| Mass flow | 1 018 | kg/h |
| C.O.P. | 3.23 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 75 | dB(A) |

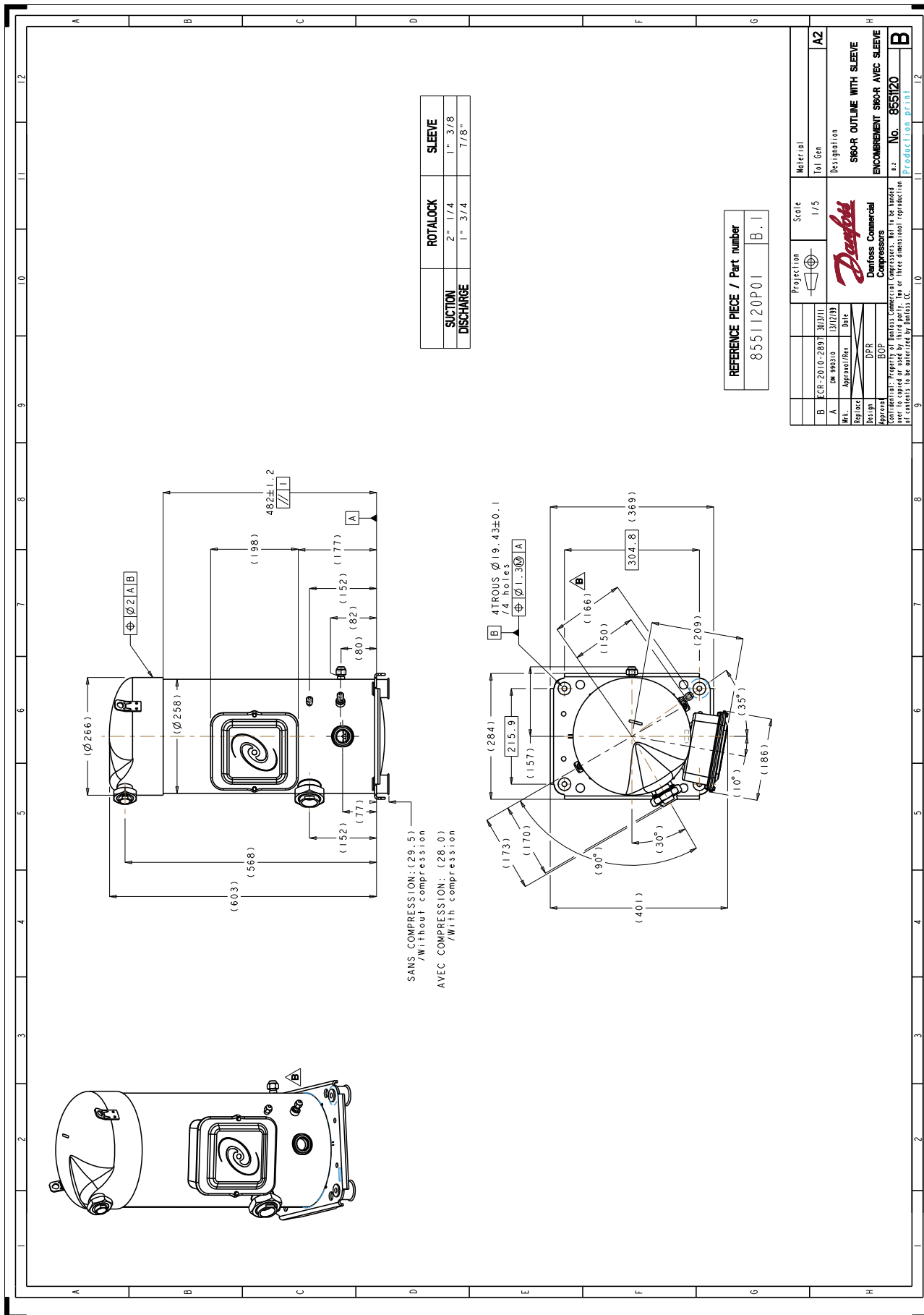
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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| | |
|-----------|--------|
| ROTALOCK | SLEEVE |
| SUCTION | 2" 1/4 |
| DISCHARGE | 1" 3/4 |
| | 1" 3/8 |
| | 7/8" |

| | |
|-------------------------------|-----|
| REFERENCE PIECE / Part number | B.1 |
| 8551120P01 | |

| | |
|---|---------------------------|
| Material | S80-R OUTLINE WITH SLEEVE |
| Scale | 1/5 |
| Projection | 1st Angle |
| Toi Gen | Designation |
| ECR-2010-2897 30/3/11 | |
| DM 990310 13/12/09 | |
| Approuvé/Rev | Rev |
| DPR | |
| BOF | |
| | |
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| No. | 855120 |
| Production | B.1 |

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