

Datasheets

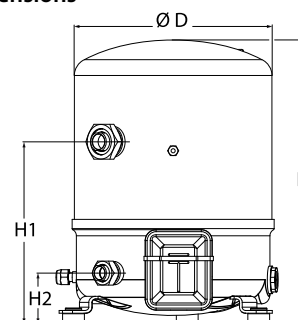
Danfoss Reciprocating compressors **MT / MTZ / NTZ**



General Characteristics

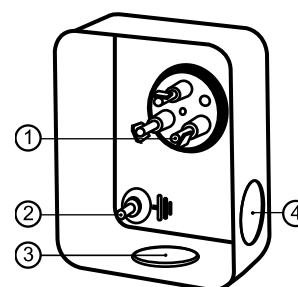
| | | |
|---|--|---|
| Model number (on compressor nameplate) | | MTZ56HL4BVE |
| Code number for Singlepack* | | MTZ56-4VI |
| Code number for Industrial pack** | | MTZ56-4VM |
| Drawing number | | 8502012g |
| Suction and discharge connections | | Rotolock |
| Suction connection | | 1-3/4 " Rotolock |
| Discharge connection | | 1-1/4 " Rotolock |
| Suction connection with supplied sleeve | | 7/8 " ODF |
| Discharge connection with supplied sleeve | | 3/4 " ODF |
| Oil sight glass | | Threaded |
| Oil equalisation connection | | 3/8" flare SAE |
| Oil drain connection | | None |
| LP gauge port | | Schrader |
| IPR valve | | 30 bar / 8 bar |
| Cylinders | | 2 |
| Swept volume | | 96.13 cm ³ /rev |
| Displacement @ Nominal speed | | 16.7 m ³ /h @ 2900 rpm - 20.2 m ³ /h @ 3500 rpm |
| Net weight | | 39 kg |
| Oil charge | | 1.8 litre, POE - 175PZ |
| Maximum system test pressure Low Side / High side | | 25 bar(g) / 30 bar(g) |
| Maximum differential test pressure | | 30 bar |
| Maximum number of starts per hour | | 12 |
| Refrigerant charge limit | | 5 kg |
| Approved refrigerants | | R404A, R134a, R407C, R407A/F, R448A, R449A, R452A |

Dimensions



D=288 mm
H=413 mm
H1=265 mm
H2=74 mm
H3=- mm

Terminal box



IP55 (with cable gland)
1: Spade connectors 1/4"
2: Earth M4-12
3: Knock-out Ø 21 mm (0.83")
4: Hole Ø 21 mm (0.83")

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 | 2.39 Ω |
| Maximum Continuous Current (MCC) | 12 A |
| Locked Rotor Amps (LRA) | 64 A |
| Motor protection | Internal overload protector |

Recommended Installation torques

| | |
|--------------------------------------|-------------|
| Oil sight glass | 50 Nm |
| Power connections / Earth connection | 2 Nm / 2 Nm |
| Mounting bolts | 15 Nm |

Parts shipped with compressor

| |
|--|
| Mounting kit with grommets, bolts, nuts, sleeves and washers |
| Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only) |
| Initial oil charge |
| Installation instructions |

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

*Singlepack: Compressor in cardboard box

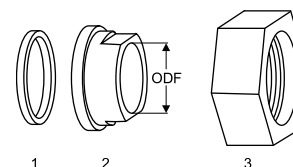
**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side

Code no.

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

Gaskets, sleeves and nuts



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

Rotolock accessories, discharge 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, sets

Code no.

| | |
|---|---------|
| Angle adapter set, C07 (1-3/4"~7/8"), C04 (1-1/4"~3/4") | 7703013 |
| Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4") | 7703006 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009 |

Oil / lubricants

Code no.

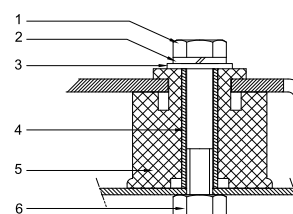
| | |
|-------------------------------------|----------|
| POE lubricant, 175PZ, 1 litre can | 120Z0638 |
| POE lubricant, 175PZ, 2.5 litre can | 120Z0639 |

Crankcase heaters

Code no.

| | |
|--|----------|
| PTC heater 27W, CE mark, UL | 120Z0459 |
| 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, 460 V, CE mark, UL | 120Z0466 |

Mounting kit



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

Miscellaneous accessories

Code no.

| | |
|---|----------|
| Electronic soft start kit, MCI 15 C | 7705006 |
| Acoustic hood for 2 cylinder compressor | 120Z0472 |
| Oil equalisation nut | 8153127 |

Spare parts

Code no.

| | |
|---|---------|
| Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts | 8156001 |
| Oil sight glass with gaskets (black & white) | 8156019 |
| Gasket for oil sight glass (black chloroprene) | 8156145 |
| Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp | 8156134 |

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Performance data at 50 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 227 | 7 074 | 9 303 | 11 962 | 15 099 | 18 762 | 23 001 | - | - |
| 40 | 4 691 | 6 432 | 8 527 | 11 023 | 13 968 | 17 412 | 21 402 | - | - |
| 45 | 4 153 | 5 787 | 7 745 | 10 076 | 12 828 | 16 050 | 19 789 | - | - |
| 50 | - | 5 141 | 6 961 | 9 125 | 11 682 | 14 680 | 18 167 | - | - |
| 55 | - | - | 6 179 | 8 174 | 10 534 | 13 306 | 16 539 | - | - |
| 60 | - | - | - | 7 226 | 9 387 | 11 931 | 14 908 | - | - |
| 65 | - | - | - | 6 285 | 8 245 | 10 560 | 13 278 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 398 | 2 677 | 2 912 | 3 111 | 3 281 | 3 430 | 3 564 | - | - |
| 40 | 2 469 | 2 803 | 3 086 | 3 324 | 3 525 | 3 697 | 3 846 | - | - |
| 45 | 2 502 | 2 902 | 3 243 | 3 531 | 3 775 | 3 981 | 4 157 | - | - |
| 50 | - | 2 965 | 3 375 | 3 725 | 4 022 | 4 273 | 4 487 | - | - |
| 55 | - | - | 3 472 | 3 894 | 4 256 | 4 565 | 4 827 | - | - |
| 60 | - | - | - | 4 032 | 4 469 | 4 846 | 5 168 | - | - |
| 65 | - | - | - | 4 127 | 4 652 | 5 107 | 5 500 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.55 | 5.83 | 6.11 | 6.37 | 6.61 | 6.81 | 6.96 | - | - |
| 40 | 5.63 | 5.96 | 6.28 | 6.59 | 6.86 | 7.09 | 7.26 | - | - |
| 45 | 5.69 | 6.08 | 6.46 | 6.82 | 7.14 | 7.42 | 7.64 | - | - |
| 50 | - | 6.17 | 6.63 | 7.06 | 7.45 | 7.79 | 8.07 | - | - |
| 55 | - | - | 6.77 | 7.29 | 7.76 | 8.18 | 8.54 | - | - |
| 60 | - | - | - | 7.48 | 8.06 | 8.57 | 9.02 | - | - |
| 65 | - | - | - | 7.62 | 8.31 | 8.94 | 9.50 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 113 | 151 | 195 | 247 | 307 | 377 | 456 | - | - |
| 40 | 107 | 144 | 188 | 239 | 298 | 366 | 444 | - | - |
| 45 | 100 | 137 | 180 | 230 | 288 | 355 | 431 | - | - |
| 50 | - | 129 | 171 | 220 | 277 | 343 | 418 | - | - |
| 55 | - | - | 162 | 210 | 266 | 330 | 403 | - | - |
| 60 | - | - | - | 199 | 253 | 316 | 388 | - | - |
| 65 | - | - | - | 187 | 240 | 301 | 371 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.18 | 2.64 | 3.19 | 3.84 | 4.60 | 5.47 | 6.45 | - | - |
| 40 | 1.90 | 2.29 | 2.76 | 3.32 | 3.96 | 4.71 | 5.56 | - | - |
| 45 | 1.66 | 1.99 | 2.39 | 2.85 | 3.40 | 4.03 | 4.76 | - | - |
| 50 | - | 1.73 | 2.06 | 2.45 | 2.90 | 3.44 | 4.05 | - | - |
| 55 | - | - | 1.78 | 2.10 | 2.47 | 2.92 | 3.43 | - | - |
| 60 | - | - | - | 1.79 | 2.10 | 2.46 | 2.88 | - | - |
| 65 | - | - | - | 1.52 | 1.77 | 2.07 | 2.41 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 11 682 | W |
| Power input | 4 022 | W |
| Current consumption | 7.45 | A |
| Mass flow | 277 | kg/h |
| C.O.P. | 2.90 | |


Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 626 | 7 605 | 9 990 | 12 830 | 16 177 | 20 081 | 24 592 | - | - |
| 40 | 5 076 | 6 952 | 9 203 | 11 882 | 15 039 | 18 725 | 22 990 | - | - |
| 45 | 4 523 | 6 293 | 8 410 | 10 925 | 13 891 | 17 357 | 21 375 | - | - |
| 50 | - | 5 631 | 7 612 | 9 963 | 12 735 | 15 980 | 19 749 | - | - |
| 55 | - | - | 6 815 | 8 999 | 11 577 | 14 599 | 18 118 | - | - |
| 60 | - | - | - | 8 038 | 10 419 | 13 218 | 16 486 | - | - |
| 65 | - | - | - | 7 083 | 9 268 | 11 843 | 14 861 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 398 | 2 677 | 2 912 | 3 111 | 3 281 | 3 430 | 3 564 | - | - |
| 40 | 2 469 | 2 803 | 3 086 | 3 324 | 3 525 | 3 697 | 3 846 | - | - |
| 45 | 2 502 | 2 902 | 3 243 | 3 531 | 3 775 | 3 981 | 4 157 | - | - |
| 50 | - | 2 965 | 3 375 | 3 725 | 4 022 | 4 273 | 4 487 | - | - |
| 55 | - | - | 3 472 | 3 894 | 4 256 | 4 565 | 4 827 | - | - |
| 60 | - | - | - | 4 032 | 4 469 | 4 846 | 5 168 | - | - |
| 65 | - | - | - | 4 127 | 4 652 | 5 107 | 5 500 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.55 | 5.83 | 6.11 | 6.37 | 6.61 | 6.81 | 6.96 | - | - |
| 40 | 5.63 | 5.96 | 6.28 | 6.59 | 6.86 | 7.09 | 7.26 | - | - |
| 45 | 5.69 | 6.08 | 6.46 | 6.82 | 7.14 | 7.42 | 7.64 | - | - |
| 50 | - | 6.17 | 6.63 | 7.06 | 7.45 | 7.79 | 8.07 | - | - |
| 55 | - | - | 6.77 | 7.29 | 7.76 | 8.18 | 8.54 | - | - |
| 60 | - | - | - | 7.48 | 8.06 | 8.57 | 9.02 | - | - |
| 65 | - | - | - | 7.62 | 8.31 | 8.94 | 9.50 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 113 | 150 | 194 | 246 | 306 | 374 | 453 | - | - |
| 40 | 106 | 143 | 187 | 238 | 296 | 364 | 441 | - | - |
| 45 | 100 | 136 | 179 | 229 | 286 | 353 | 428 | - | - |
| 50 | - | 128 | 170 | 219 | 276 | 341 | 415 | - | - |
| 55 | - | - | 161 | 209 | 264 | 328 | 401 | - | - |
| 60 | - | - | - | 198 | 252 | 314 | 385 | - | - |
| 65 | - | - | - | 186 | 239 | 300 | 369 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.35 | 2.84 | 3.43 | 4.12 | 4.93 | 5.85 | 6.90 | - | - |
| 40 | 2.06 | 2.48 | 2.98 | 3.57 | 4.27 | 5.07 | 5.98 | - | - |
| 45 | 1.81 | 2.17 | 2.59 | 3.09 | 3.68 | 4.36 | 5.14 | - | - |
| 50 | - | 1.90 | 2.26 | 2.67 | 3.17 | 3.74 | 4.40 | - | - |
| 55 | - | - | 1.96 | 2.31 | 2.72 | 3.20 | 3.75 | - | - |
| 60 | - | - | - | 1.99 | 2.33 | 2.73 | 3.19 | - | - |
| 65 | - | - | - | 1.72 | 1.99 | 2.32 | 2.70 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 12 999 | W |
| Power input | 4 367 | W |
| Current consumption | 7.91 | A |
| Mass flow | 293 | kg/h |
| C.O.P. | 2.98 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 35 | 1 645 | 2 349 | 4 415 | 5 878 | 7 694 | 9 914 | 12 588 | 15 766 | 19 498 |
| 40 | 1 392 | 2 043 | 3 958 | 5 322 | 7 025 | 9 115 | 11 645 | 14 663 | 18 220 |
| 45 | 1 163 | 1 761 | 3 526 | 4 792 | 6 381 | 8 343 | 10 728 | 13 587 | 16 969 |
| 50 | 957 | 1 504 | 3 119 | 4 287 | 5 763 | 7 597 | 9 838 | 12 538 | 15 746 |
| 55 | - | - | 2 738 | 3 809 | 5 172 | 6 878 | 8 976 | 11 517 | 14 552 |
| 60 | - | - | - | 3 358 | 4 609 | 6 187 | 8 142 | 10 526 | 13 386 |
| 65 | - | - | - | - | 4 073 | 5 524 | 7 338 | 9 563 | 12 251 |
| 75 | - | - | - | - | - | - | 5 818 | 7 729 | 10 073 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 191 | 1 419 | 1 828 | 2 002 | 2 152 | 2 276 | 2 370 | 2 432 | 2 458 |
| 40 | 1 148 | 1 396 | 1 848 | 2 046 | 2 222 | 2 372 | 2 494 | 2 585 | 2 642 |
| 45 | 1 109 | 1 380 | 1 882 | 2 107 | 2 311 | 2 491 | 2 645 | 2 768 | 2 859 |
| 50 | 1 064 | 1 361 | 1 919 | 2 175 | 2 411 | 2 624 | 2 812 | 2 972 | 3 100 |
| 55 | - | - | 1 950 | 2 240 | 2 511 | 2 760 | 2 986 | 3 185 | 3 354 |
| 60 | - | - | - | 2 292 | 2 601 | 2 890 | 3 157 | 3 398 | 3 611 |
| 65 | - | - | - | - | 2 672 | 3 005 | 3 316 | 3 602 | 3 862 |
| 75 | - | - | - | - | - | - | 3 555 | 3 943 | 4 306 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.20 | 5.16 | 5.25 | 5.36 | 5.48 | 5.61 | 5.73 | 5.83 | 5.89 |
| 40 | 5.18 | 5.15 | 5.27 | 5.39 | 5.53 | 5.68 | 5.82 | 5.93 | 6.01 |
| 45 | 5.15 | 5.15 | 5.31 | 5.45 | 5.62 | 5.79 | 5.95 | 6.09 | 6.20 |
| 50 | 5.11 | 5.13 | 5.36 | 5.53 | 5.73 | 5.93 | 6.13 | 6.30 | 6.44 |
| 55 | - | - | 5.39 | 5.60 | 5.84 | 6.08 | 6.32 | 6.54 | 6.72 |
| 60 | - | - | - | 5.66 | 5.94 | 6.24 | 6.53 | 6.80 | 7.03 |
| 65 | - | - | - | - | 6.03 | 6.38 | 6.73 | 7.05 | 7.35 |
| 75 | - | - | - | - | - | - | 7.04 | 7.52 | 7.96 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 41 | 59 | 105 | 137 | 175 | 221 | 275 | 339 | 414 |
| 40 | 37 | 54 | 99 | 130 | 168 | 213 | 267 | 330 | 404 |
| 45 | 33 | 49 | 93 | 123 | 160 | 205 | 259 | 321 | 395 |
| 50 | 29 | 44 | 87 | 117 | 153 | 197 | 250 | 313 | 386 |
| 55 | - | - | 81 | 110 | 146 | 190 | 242 | 304 | 376 |
| 60 | - | - | - | 104 | 139 | 182 | 234 | 295 | 367 |
| 65 | - | - | - | - | 133 | 175 | 226 | 287 | 358 |
| 75 | - | - | - | - | - | - | 211 | 271 | 341 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.38 | 1.66 | 2.42 | 2.94 | 3.57 | 4.36 | 5.31 | 6.48 | 7.93 |
| 40 | 1.21 | 1.46 | 2.14 | 2.60 | 3.16 | 3.84 | 4.67 | 5.67 | 6.90 |
| 45 | 1.05 | 1.28 | 1.87 | 2.27 | 2.76 | 3.35 | 4.06 | 4.91 | 5.93 |
| 50 | 0.90 | 1.11 | 1.63 | 1.97 | 2.39 | 2.89 | 3.50 | 4.22 | 5.08 |
| 55 | - | - | 1.40 | 1.70 | 2.06 | 2.49 | 3.01 | 3.62 | 4.34 |
| 60 | - | - | - | 1.47 | 1.77 | 2.14 | 2.58 | 3.10 | 3.71 |
| 65 | - | - | - | - | 1.52 | 1.84 | 2.21 | 2.65 | 3.17 |
| 75 | - | - | - | - | - | - | 1.64 | 1.96 | 2.34 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 597 | W |
| Power input | 2 624 | W |
| Current consumption | 5.93 | A |
| Mass flow | 197 | kg/h |
| C.O.P. | 2.89 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 788 | 2 548 | 4 774 | 6 345 | 8 293 | 10 670 | 13 528 | 16 920 | 20 898 |
| 40 | 1 522 | 2 229 | 4 302 | 5 775 | 7 608 | 9 857 | 12 572 | 15 806 | 19 612 |
| 45 | 1 280 | 1 934 | 3 855 | 5 229 | 6 949 | 9 069 | 11 642 | 14 719 | 18 354 |
| 50 | - | 1 664 | 3 434 | 4 709 | 6 317 | 8 309 | 10 740 | 13 661 | 17 126 |
| 55 | - | - | 3 039 | 4 216 | 5 711 | 7 577 | 9 866 | 12 633 | 15 929 |
| 60 | - | - | - | 3 751 | 5 134 | 6 874 | 9 023 | 11 636 | 14 764 |
| 65 | - | - | - | - | - | 6 201 | 8 212 | 10 672 | 13 636 |
| 75 | - | - | - | - | - | - | 6 694 | 8 859 | 11 502 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 191 | 1 419 | 1 828 | 2 002 | 2 152 | 2 276 | 2 370 | 2 432 | 2 458 |
| 40 | 1 148 | 1 396 | 1 848 | 2 046 | 2 222 | 2 372 | 2 494 | 2 585 | 2 642 |
| 45 | 1 109 | 1 380 | 1 882 | 2 107 | 2 311 | 2 491 | 2 645 | 2 768 | 2 859 |
| 50 | - | 1 361 | 1 919 | 2 175 | 2 411 | 2 624 | 2 812 | 2 972 | 3 100 |
| 55 | - | - | 1 950 | 2 240 | 2 511 | 2 760 | 2 986 | 3 185 | 3 354 |
| 60 | - | - | - | 2 292 | 2 601 | 2 890 | 3 157 | 3 398 | 3 611 |
| 65 | - | - | - | - | - | 3 005 | 3 316 | 3 602 | 3 862 |
| 75 | - | - | - | - | - | - | 3 555 | 3 943 | 4 306 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.20 | 5.16 | 5.25 | 5.36 | 5.48 | 5.61 | 5.73 | 5.83 | 5.89 |
| 40 | 5.18 | 5.15 | 5.27 | 5.39 | 5.53 | 5.68 | 5.82 | 5.93 | 6.01 |
| 45 | 5.15 | 5.15 | 5.31 | 5.45 | 5.62 | 5.79 | 5.95 | 6.09 | 6.20 |
| 50 | - | 5.13 | 5.36 | 5.53 | 5.73 | 5.93 | 6.13 | 6.30 | 6.44 |
| 55 | - | - | 5.39 | 5.60 | 5.84 | 6.08 | 6.32 | 6.54 | 6.72 |
| 60 | - | - | - | 5.66 | 5.94 | 6.24 | 6.53 | 6.80 | 7.03 |
| 65 | - | - | - | - | - | 6.38 | 6.73 | 7.05 | 7.35 |
| 75 | - | - | - | - | - | - | 7.04 | 7.52 | 7.96 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 41 | 58 | 105 | 136 | 174 | 220 | 274 | 337 | 411 |
| 40 | 37 | 53 | 99 | 129 | 167 | 212 | 265 | 329 | 402 |
| 45 | 33 | 49 | 93 | 123 | 160 | 204 | 257 | 320 | 393 |
| 50 | - | 44 | 87 | 116 | 152 | 196 | 249 | 311 | 383 |
| 55 | - | - | 81 | 110 | 145 | 189 | 241 | 302 | 374 |
| 60 | - | - | - | 104 | 139 | 181 | 233 | 293 | 365 |
| 65 | - | - | - | - | - | 174 | 225 | 285 | 356 |
| 75 | - | - | - | - | - | - | 210 | 269 | 339 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.50 | 1.80 | 2.61 | 3.17 | 3.85 | 4.69 | 5.71 | 6.96 | 8.50 |
| 40 | 1.33 | 1.60 | 2.33 | 2.82 | 3.42 | 4.16 | 5.04 | 6.11 | 7.42 |
| 45 | 1.15 | 1.40 | 2.05 | 2.48 | 3.01 | 3.64 | 4.40 | 5.32 | 6.42 |
| 50 | - | 1.22 | 1.79 | 2.17 | 2.62 | 3.17 | 3.82 | 4.60 | 5.52 |
| 55 | - | - | 1.56 | 1.88 | 2.27 | 2.74 | 3.30 | 3.97 | 4.75 |
| 60 | - | - | - | 1.64 | 1.97 | 2.38 | 2.86 | 3.42 | 4.09 |
| 65 | - | - | - | - | - | 2.06 | 2.48 | 2.96 | 3.53 |
| 75 | - | - | - | - | - | - | 1.88 | 2.25 | 2.67 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 622 | W |
| Power input | 2 845 | W |
| Current consumption | 6.17 | A |
| Mass flow | 211 | kg/h |
| C.O.P. | 3.03 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions
R404A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 833 | 4 001 | 5 466 | 7 268 | 9 449 | 12 051 | 15 115 | 18 682 | 22 794 |
| 35 | 2 439 | 3 509 | 4 849 | 6 498 | 8 499 | 10 893 | 13 722 | 17 026 | 20 847 |
| 40 | 2 074 | 3 049 | 4 266 | 5 765 | 7 588 | 9 776 | 12 371 | 15 415 | 18 948 |
| 45 | 1 734 | 2 616 | 3 712 | 5 062 | 6 709 | 8 694 | 11 058 | 13 843 | 17 090 |
| 50 | 1 414 | 2 205 | 3 182 | 4 386 | 5 859 | 7 643 | 9 778 | 12 306 | 15 268 |
| 55 | - | 1 810 | 2 670 | 3 730 | 5 032 | 6 616 | 8 524 | 10 798 | 13 478 |
| 60 | - | 1 426 | 2 172 | 3 090 | 4 222 | 5 609 | 7 293 | 9 314 | 11 714 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 050 | 2 351 | 2 635 | 2 896 | 3 130 | 3 334 | 3 503 | 3 632 | 3 718 |
| 35 | 2 058 | 2 386 | 2 697 | 2 988 | 3 254 | 3 491 | 3 694 | 3 860 | 3 983 |
| 40 | 2 055 | 2 413 | 2 757 | 3 082 | 3 383 | 3 657 | 3 898 | 4 104 | 4 269 |
| 45 | 2 038 | 2 431 | 2 810 | 3 173 | 3 513 | 3 827 | 4 112 | 4 361 | 4 572 |
| 50 | 2 002 | 2 433 | 2 853 | 3 256 | 3 640 | 3 999 | 4 329 | 4 626 | 4 886 |
| 55 | - | 2 417 | 2 880 | 3 329 | 3 759 | 4 167 | 4 547 | 4 896 | 5 209 |
| 60 | - | 2 377 | 2 888 | 3 386 | 3 867 | 4 327 | 4 761 | 5 165 | 5 535 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 5.22 | 5.51 | 5.81 | 6.11 | 6.40 | 6.66 | 6.87 | 7.02 | 7.09 |
| 35 | 5.23 | 5.54 | 5.87 | 6.21 | 6.53 | 6.83 | 7.09 | 7.29 | 7.42 |
| 40 | 5.23 | 5.57 | 5.93 | 6.31 | 6.68 | 7.03 | 7.34 | 7.60 | 7.79 |
| 45 | 5.21 | 5.58 | 5.99 | 6.41 | 6.83 | 7.23 | 7.61 | 7.93 | 8.19 |
| 50 | 5.17 | 5.58 | 6.04 | 6.51 | 6.99 | 7.45 | 7.89 | 8.28 | 8.62 |
| 55 | - | 5.57 | 6.07 | 6.60 | 7.14 | 7.68 | 8.18 | 8.65 | 9.07 |
| 60 | - | 5.53 | 6.09 | 6.69 | 7.30 | 7.90 | 8.49 | 9.04 | 9.54 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 89 | 123 | 164 | 212 | 269 | 336 | 412 | 500 | 600 |
| 35 | 83 | 116 | 156 | 203 | 258 | 323 | 398 | 484 | 582 |
| 40 | 76 | 109 | 148 | 194 | 248 | 311 | 384 | 468 | 564 |
| 45 | 70 | 102 | 140 | 185 | 238 | 300 | 371 | 453 | 547 |
| 50 | 63 | 95 | 132 | 176 | 228 | 288 | 358 | 439 | 530 |
| 55 | - | 88 | 124 | 167 | 218 | 277 | 346 | 424 | 514 |
| 60 | - | 81 | 117 | 159 | 209 | 267 | 334 | 411 | 499 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.38 | 1.70 | 2.07 | 2.51 | 3.02 | 3.61 | 4.32 | 5.14 | 6.13 |
| 35 | 1.19 | 1.47 | 1.80 | 2.17 | 2.61 | 3.12 | 3.71 | 4.41 | 5.23 |
| 40 | 1.01 | 1.26 | 1.55 | 1.87 | 2.24 | 2.67 | 3.17 | 3.76 | 4.44 |
| 45 | 0.85 | 1.08 | 1.32 | 1.60 | 1.91 | 2.27 | 2.69 | 3.17 | 3.74 |
| 50 | 0.71 | 0.91 | 1.12 | 1.35 | 1.61 | 1.91 | 2.26 | 2.66 | 3.12 |
| 55 | - | 0.75 | 0.93 | 1.12 | 1.34 | 1.59 | 1.87 | 2.21 | 2.59 |
| 60 | - | 0.60 | 0.75 | 0.91 | 1.09 | 1.30 | 1.53 | 1.80 | 2.12 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 6 709 | W |
| Power input | 3 513 | W |
| Current consumption | 6.83 | A |
| Mass flow | 238 | kg/h |
| C.O.P. | 1.91 | |


Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.7 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 81 | dB(A) |
| With acoustic hood | 74 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions
R404A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 154 | 4 442 | 6 052 | 8 028 | 10 413 | 13 252 | 16 587 | 20 461 | 24 918 |
| 35 | 2 744 | 3 936 | 5 422 | 7 246 | 9 452 | 12 084 | 15 185 | 18 800 | 22 971 |
| 40 | 2 364 | 3 463 | 4 827 | 6 502 | 8 531 | 10 960 | 13 831 | 17 189 | 21 077 |
| 45 | 2 010 | 3 018 | 4 264 | 5 792 | 7 648 | 9 876 | 12 520 | 15 625 | 19 235 |
| 50 | 1 675 | 2 597 | 3 727 | 5 113 | 6 798 | 8 830 | 11 252 | 14 109 | 17 445 |
| 55 | - | 2 193 | 3 213 | 4 460 | 5 981 | 7 822 | 10 027 | 12 643 | 15 714 |
| 60 | - | 1 803 | 2 720 | 3 836 | 5 200 | 6 858 | 8 857 | 11 243 | 14 062 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 050 | 2 351 | 2 635 | 2 896 | 3 130 | 3 334 | 3 503 | 3 632 | 3 718 |
| 35 | 2 058 | 2 386 | 2 697 | 2 988 | 3 254 | 3 491 | 3 694 | 3 860 | 3 983 |
| 40 | 2 055 | 2 413 | 2 757 | 3 082 | 3 383 | 3 657 | 3 898 | 4 104 | 4 269 |
| 45 | 2 038 | 2 431 | 2 810 | 3 173 | 3 513 | 3 827 | 4 112 | 4 361 | 4 572 |
| 50 | 2 002 | 2 433 | 2 853 | 3 256 | 3 640 | 3 999 | 4 329 | 4 626 | 4 886 |
| 55 | - | 2 417 | 2 880 | 3 329 | 3 759 | 4 167 | 4 547 | 4 896 | 5 209 |
| 60 | - | 2 377 | 2 888 | 3 386 | 3 867 | 4 327 | 4 761 | 5 165 | 5 535 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 5.22 | 5.51 | 5.81 | 6.11 | 6.40 | 6.66 | 6.87 | 7.02 | 7.09 |
| 35 | 5.23 | 5.54 | 5.87 | 6.21 | 6.53 | 6.83 | 7.09 | 7.29 | 7.42 |
| 40 | 5.23 | 5.57 | 5.93 | 6.31 | 6.68 | 7.03 | 7.34 | 7.60 | 7.79 |
| 45 | 5.21 | 5.58 | 5.99 | 6.41 | 6.83 | 7.23 | 7.61 | 7.93 | 8.19 |
| 50 | 5.17 | 5.58 | 6.04 | 6.51 | 6.99 | 7.45 | 7.89 | 8.28 | 8.62 |
| 55 | - | 5.57 | 6.07 | 6.60 | 7.14 | 7.68 | 8.18 | 8.65 | 9.07 |
| 60 | - | 5.53 | 6.09 | 6.69 | 7.30 | 7.90 | 8.49 | 9.04 | 9.54 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 89 | 122 | 163 | 211 | 268 | 334 | 410 | 497 | 596 |
| 35 | 82 | 115 | 155 | 202 | 257 | 321 | 395 | 481 | 578 |
| 40 | 76 | 108 | 147 | 193 | 246 | 309 | 382 | 465 | 560 |
| 45 | 69 | 101 | 139 | 184 | 236 | 298 | 369 | 450 | 543 |
| 50 | 63 | 94 | 131 | 175 | 227 | 287 | 356 | 436 | 527 |
| 55 | - | 87 | 124 | 166 | 217 | 276 | 344 | 422 | 511 |
| 60 | - | 80 | 116 | 158 | 207 | 265 | 331 | 408 | 495 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.54 | 1.89 | 2.30 | 2.77 | 3.33 | 3.97 | 4.74 | 5.63 | 6.70 |
| 35 | 1.33 | 1.65 | 2.01 | 2.42 | 2.90 | 3.46 | 4.11 | 4.87 | 5.77 |
| 40 | 1.15 | 1.43 | 1.75 | 2.11 | 2.52 | 3.00 | 3.55 | 4.19 | 4.94 |
| 45 | 0.99 | 1.24 | 1.52 | 1.83 | 2.18 | 2.58 | 3.05 | 3.58 | 4.21 |
| 50 | 0.84 | 1.07 | 1.31 | 1.57 | 1.87 | 2.21 | 2.60 | 3.05 | 3.57 |
| 55 | - | 0.91 | 1.12 | 1.34 | 1.59 | 1.88 | 2.21 | 2.58 | 3.02 |
| 60 | - | 0.76 | 0.94 | 1.13 | 1.34 | 1.58 | 1.86 | 2.18 | 2.54 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 648 | W |
| Power input | 3 513 | W |
| Current consumption | 6.83 | A |
| Mass flow | 236 | kg/h |
| C.O.P. | 2.18 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.7 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 81 | dB(A) |
| With acoustic hood | 74 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions
R407A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 094 | 3 177 | 4 537 | 6 214 | 8 247 | 10 676 | 13 541 | 16 882 | 20 738 |
| 35 | 1 772 | 2 785 | 4 055 | 5 623 | 7 528 | 9 810 | 12 509 | 15 663 | 19 314 |
| 40 | 1 461 | 2 403 | 3 583 | 5 041 | 6 817 | 8 951 | 11 481 | 14 449 | 17 893 |
| 45 | 1 164 | 2 034 | 3 123 | 4 471 | 6 117 | 8 101 | 10 463 | 13 242 | 16 479 |
| 50 | - | 1 683 | 2 680 | 3 915 | 5 430 | 7 264 | 9 456 | 12 047 | 15 075 |
| 55 | - | - | 2 255 | 3 378 | 4 761 | 6 443 | 8 465 | 10 865 | 13 684 |
| 60 | - | - | - | 2 863 | 4 113 | 5 642 | 7 492 | 9 701 | 12 309 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 569 | 1 880 | 2 174 | 2 447 | 2 692 | 2 905 | 3 082 | 3 216 | 3 304 |
| 35 | 1 540 | 1 880 | 2 205 | 2 511 | 2 793 | 3 046 | 3 264 | 3 444 | 3 579 |
| 40 | 1 495 | 1 866 | 2 225 | 2 568 | 2 890 | 3 184 | 3 448 | 3 675 | 3 862 |
| 45 | 1 433 | 1 839 | 2 235 | 2 617 | 2 981 | 3 321 | 3 633 | 3 911 | 4 150 |
| 50 | - | 1 798 | 2 234 | 2 659 | 3 068 | 3 456 | 3 818 | 4 150 | 4 446 |
| 55 | - | - | 2 223 | 2 693 | 3 150 | 3 589 | 4 005 | 4 393 | 4 748 |
| 60 | - | - | - | 2 720 | 3 228 | 3 720 | 4 193 | 4 640 | 5 057 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.67 | 4.95 | 5.26 | 5.56 | 5.86 | 6.12 | 6.34 | 6.51 | 6.59 |
| 35 | 4.67 | 4.96 | 5.28 | 5.61 | 5.94 | 6.25 | 6.52 | 6.74 | 6.89 |
| 40 | 4.66 | 4.97 | 5.31 | 5.67 | 6.03 | 6.39 | 6.72 | 7.01 | 7.23 |
| 45 | 4.64 | 4.96 | 5.33 | 5.73 | 6.14 | 6.55 | 6.94 | 7.30 | 7.60 |
| 50 | - | 4.94 | 5.35 | 5.79 | 6.25 | 6.72 | 7.18 | 7.61 | 8.00 |
| 55 | - | - | 5.34 | 5.83 | 6.35 | 6.89 | 7.42 | 7.93 | 8.42 |
| 60 | - | - | - | 5.86 | 6.44 | 7.04 | 7.66 | 8.26 | 8.84 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 50 | 74 | 104 | 140 | 182 | 232 | 289 | 355 | 431 |
| 35 | 44 | 69 | 98 | 133 | 175 | 224 | 280 | 346 | 421 |
| 40 | 39 | 63 | 91 | 126 | 167 | 215 | 271 | 336 | 410 |
| 45 | 33 | 56 | 85 | 118 | 159 | 206 | 262 | 325 | 398 |
| 50 | - | 50 | 78 | 111 | 150 | 197 | 251 | 314 | 386 |
| 55 | - | - | 70 | 103 | 142 | 188 | 241 | 303 | 374 |
| 60 | - | - | - | 95 | 133 | 178 | 230 | 291 | 361 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.34 | 1.69 | 2.09 | 2.54 | 3.06 | 3.67 | 4.39 | 5.25 | 6.28 |
| 35 | 1.15 | 1.48 | 1.84 | 2.24 | 2.70 | 3.22 | 3.83 | 4.55 | 5.40 |
| 40 | 0.98 | 1.29 | 1.61 | 1.96 | 2.36 | 2.81 | 3.33 | 3.93 | 4.63 |
| 45 | 0.81 | 1.11 | 1.40 | 1.71 | 2.05 | 2.44 | 2.88 | 3.39 | 3.97 |
| 50 | - | 0.94 | 1.20 | 1.47 | 1.77 | 2.10 | 2.48 | 2.90 | 3.39 |
| 55 | - | - | 1.01 | 1.25 | 1.51 | 1.80 | 2.11 | 2.47 | 2.88 |
| 60 | - | - | - | 1.05 | 1.27 | 1.52 | 1.79 | 2.09 | 2.43 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 6 117 | W |
| Power input | 2 981 | W |
| Current consumption | 6.14 | A |
| Mass flow | 159 | kg/h |
| C.O.P. | 2.05 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 25.8 | bar(g) |
| Minimum LP switch setting | 0.9 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 80 | 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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions
R407A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 265 | 3 431 | 4 893 | 6 692 | 8 870 | 11 469 | 14 530 | 18 094 | 22 202 |
| 35 | 1 928 | 3 025 | 4 398 | 6 089 | 8 140 | 10 593 | 13 489 | 16 869 | 20 776 |
| 40 | 1 600 | 2 627 | 3 911 | 5 493 | 7 416 | 9 722 | 12 452 | 15 649 | 19 353 |
| 45 | 1 286 | 2 242 | 3 435 | 4 908 | 6 702 | 8 860 | 11 425 | 14 437 | 17 938 |
| 50 | - | 1 873 | 2 975 | 4 337 | 6 002 | 8 012 | 10 410 | 13 237 | 16 537 |
| 55 | - | - | 2 533 | 3 784 | 5 319 | 7 181 | 9 413 | 12 057 | 15 155 |
| 60 | - | - | - | 3 253 | 4 659 | 6 374 | 8 440 | 10 902 | 13 800 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 569 | 1 880 | 2 174 | 2 447 | 2 692 | 2 905 | 3 082 | 3 216 | 3 304 |
| 35 | 1 540 | 1 880 | 2 205 | 2 511 | 2 793 | 3 046 | 3 264 | 3 444 | 3 579 |
| 40 | 1 495 | 1 866 | 2 225 | 2 568 | 2 890 | 3 184 | 3 448 | 3 675 | 3 862 |
| 45 | 1 433 | 1 839 | 2 235 | 2 617 | 2 981 | 3 321 | 3 633 | 3 911 | 4 150 |
| 50 | - | 1 798 | 2 234 | 2 659 | 3 068 | 3 456 | 3 818 | 4 150 | 4 446 |
| 55 | - | - | 2 223 | 2 693 | 3 150 | 3 589 | 4 005 | 4 393 | 4 748 |
| 60 | - | - | - | 2 720 | 3 228 | 3 720 | 4 193 | 4 640 | 5 057 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.67 | 4.95 | 5.26 | 5.56 | 5.86 | 6.12 | 6.34 | 6.51 | 6.59 |
| 35 | 4.67 | 4.96 | 5.28 | 5.61 | 5.94 | 6.25 | 6.52 | 6.74 | 6.89 |
| 40 | 4.66 | 4.97 | 5.31 | 5.67 | 6.03 | 6.39 | 6.72 | 7.01 | 7.23 |
| 45 | 4.64 | 4.96 | 5.33 | 5.73 | 6.14 | 6.55 | 6.94 | 7.30 | 7.60 |
| 50 | - | 4.94 | 5.35 | 5.79 | 6.25 | 6.72 | 7.18 | 7.61 | 8.00 |
| 55 | - | - | 5.34 | 5.83 | 6.35 | 6.89 | 7.42 | 7.93 | 8.42 |
| 60 | - | - | - | 5.86 | 6.44 | 7.04 | 7.66 | 8.26 | 8.84 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 49 | 74 | 104 | 139 | 181 | 230 | 288 | 353 | 428 |
| 35 | 44 | 68 | 97 | 132 | 174 | 222 | 279 | 344 | 418 |
| 40 | 39 | 62 | 91 | 125 | 166 | 214 | 270 | 334 | 407 |
| 45 | 33 | 56 | 84 | 118 | 158 | 205 | 260 | 323 | 396 |
| 50 | - | 50 | 77 | 110 | 150 | 196 | 250 | 313 | 384 |
| 55 | - | - | 70 | 102 | 141 | 186 | 240 | 301 | 372 |
| 60 | - | - | - | 94 | 132 | 177 | 229 | 290 | 359 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.44 | 1.82 | 2.25 | 2.74 | 3.30 | 3.95 | 4.72 | 5.63 | 6.72 |
| 35 | 1.25 | 1.61 | 1.99 | 2.42 | 2.91 | 3.48 | 4.13 | 4.90 | 5.80 |
| 40 | 1.07 | 1.41 | 1.76 | 2.14 | 2.57 | 3.05 | 3.61 | 4.26 | 5.01 |
| 45 | 0.90 | 1.22 | 1.54 | 1.88 | 2.25 | 2.67 | 3.14 | 3.69 | 4.32 |
| 50 | - | 1.04 | 1.33 | 1.63 | 1.96 | 2.32 | 2.73 | 3.19 | 3.72 |
| 55 | - | - | 1.14 | 1.41 | 1.69 | 2.00 | 2.35 | 2.74 | 3.19 |
| 60 | - | - | - | 1.20 | 1.44 | 1.71 | 2.01 | 2.35 | 2.73 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 6 702 | W |
| Power input | 2 981 | W |
| Current consumption | 6.14 | A |
| Mass flow | 158 | kg/h |
| C.O.P. | 2.25 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 25.8 | bar(g) |
| Minimum LP switch setting | 0.9 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 80 | 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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions
R407F

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | - | 3 454 | 4 981 | 6 867 | 9 159 | 11 904 | 15 149 | 18 942 | 23 329 |
| 35 | - | 2 946 | 4 326 | 6 032 | 8 112 | 10 613 | 13 581 | 17 064 | 21 110 |
| 40 | - | 2 528 | 3 786 | 5 339 | 7 233 | 9 515 | 12 232 | 15 432 | 19 161 |
| 45 | - | 2 179 | 3 342 | 4 767 | 6 500 | 8 588 | 11 080 | 14 022 | 17 461 |
| 50 | - | - | 2 971 | 4 293 | 5 892 | 7 813 | 10 105 | 12 814 | 15 988 |
| 55 | - | - | - | 3 898 | 5 387 | 7 167 | 9 284 | 11 787 | 14 721 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 1 982 | 2 290 | 2 579 | 2 836 | 3 044 | 3 189 | 3 256 | 3 231 |
| 35 | - | 1 988 | 2 321 | 2 645 | 2 947 | 3 211 | 3 421 | 3 564 | 3 623 |
| 40 | - | 2 001 | 2 354 | 2 708 | 3 050 | 3 363 | 3 633 | 3 845 | 3 985 |
| 45 | - | 2 035 | 2 401 | 2 780 | 3 156 | 3 513 | 3 837 | 4 113 | 4 326 |
| 50 | - | - | 2 476 | 2 873 | 3 277 | 3 672 | 4 045 | 4 379 | 4 661 |
| 55 | - | - | - | 2 999 | 3 425 | 3 854 | 4 269 | 4 656 | 5 000 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 4.96 | 5.29 | 5.62 | 5.94 | 6.22 | 6.44 | 6.57 | 6.59 |
| 35 | - | 5.03 | 5.37 | 5.73 | 6.08 | 6.41 | 6.68 | 6.88 | 6.99 |
| 40 | - | 5.05 | 5.41 | 5.80 | 6.20 | 6.58 | 6.92 | 7.19 | 7.39 |
| 45 | - | 5.06 | 5.44 | 5.87 | 6.31 | 6.75 | 7.16 | 7.53 | 7.81 |
| 50 | - | - | 5.48 | 5.95 | 6.45 | 6.96 | 7.45 | 7.90 | 8.29 |
| 55 | - | - | - | 6.07 | 6.64 | 7.21 | 7.79 | 8.34 | 8.83 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 71 | 101 | 138 | 181 | 232 | 292 | 360 | 439 |
| 35 | - | 64 | 92 | 127 | 168 | 216 | 273 | 339 | 414 |
| 40 | - | 58 | 85 | 118 | 157 | 204 | 258 | 321 | 394 |
| 45 | - | 53 | 79 | 111 | 149 | 194 | 246 | 307 | 377 |
| 50 | - | - | 75 | 106 | 143 | 186 | 237 | 296 | 364 |
| 55 | - | - | - | 103 | 139 | 182 | 232 | 289 | 356 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.74 | 2.18 | 2.66 | 3.23 | 3.91 | 4.75 | 5.82 | 7.22 |
| 35 | - | 1.48 | 1.86 | 2.28 | 2.75 | 3.31 | 3.97 | 4.79 | 5.83 |
| 40 | - | 1.26 | 1.61 | 1.97 | 2.37 | 2.83 | 3.37 | 4.01 | 4.81 |
| 45 | - | 1.07 | 1.39 | 1.71 | 2.06 | 2.44 | 2.89 | 3.41 | 4.04 |
| 50 | - | - | 1.20 | 1.49 | 1.80 | 2.13 | 2.50 | 2.93 | 3.43 |
| 55 | - | - | - | 1.30 | 1.57 | 1.86 | 2.17 | 2.53 | 2.94 |
| 60 | - | - | - | - | - | - | - | - | - |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 6 500 | W |
| Power input | 3 156 | W |
| Current consumption | 6.31 | A |
| Mass flow | 149 | kg/h |
| C.O.P. | 2.06 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 24 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.26 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 80 | 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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions
R407F

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | - | 3 702 | 5 333 | 7 345 | 9 786 | 12 708 | 16 158 | 20 186 | 24 842 |
| 35 | - | 3 172 | 4 652 | 6 480 | 8 706 | 11 378 | 14 546 | 18 260 | 22 569 |
| 40 | - | 2 736 | 4 094 | 5 765 | 7 801 | 10 251 | 13 164 | 16 590 | 20 580 |
| 45 | - | 2 374 | 3 636 | 5 179 | 7 052 | 9 307 | 11 992 | 15 158 | 18 855 |
| 50 | - | - | 3 257 | 4 699 | 6 438 | 8 526 | 11 012 | 13 946 | 17 379 |
| 55 | - | - | - | 4 307 | 5 941 | 7 890 | 10 205 | 12 937 | 16 135 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 1 982 | 2 290 | 2 579 | 2 836 | 3 044 | 3 189 | 3 256 | 3 231 |
| 35 | - | 1 988 | 2 321 | 2 645 | 2 947 | 3 211 | 3 421 | 3 564 | 3 623 |
| 40 | - | 2 001 | 2 354 | 2 708 | 3 050 | 3 363 | 3 633 | 3 845 | 3 985 |
| 45 | - | 2 035 | 2 401 | 2 780 | 3 156 | 3 513 | 3 837 | 4 113 | 4 326 |
| 50 | - | - | 2 476 | 2 873 | 3 277 | 3 672 | 4 045 | 4 379 | 4 661 |
| 55 | - | - | - | 2 999 | 3 425 | 3 854 | 4 269 | 4 656 | 5 000 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 4.96 | 5.29 | 5.62 | 5.94 | 6.22 | 6.44 | 6.57 | 6.59 |
| 35 | - | 5.03 | 5.37 | 5.73 | 6.08 | 6.41 | 6.68 | 6.88 | 6.99 |
| 40 | - | 5.05 | 5.41 | 5.80 | 6.20 | 6.58 | 6.92 | 7.19 | 7.39 |
| 45 | - | 5.06 | 5.44 | 5.87 | 6.31 | 6.75 | 7.16 | 7.53 | 7.81 |
| 50 | - | - | 5.48 | 5.95 | 6.45 | 6.96 | 7.45 | 7.90 | 8.29 |
| 55 | - | - | - | 6.07 | 6.64 | 7.21 | 7.79 | 8.34 | 8.83 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 71 | 101 | 137 | 180 | 231 | 290 | 358 | 436 |
| 35 | - | 64 | 92 | 126 | 167 | 215 | 271 | 337 | 412 |
| 40 | - | 57 | 84 | 117 | 156 | 202 | 256 | 319 | 391 |
| 45 | - | 52 | 79 | 110 | 148 | 192 | 245 | 305 | 374 |
| 50 | - | - | 74 | 105 | 142 | 185 | 236 | 295 | 362 |
| 55 | - | - | - | 102 | 138 | 181 | 230 | 288 | 353 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.87 | 2.33 | 2.85 | 3.45 | 4.18 | 5.07 | 6.20 | 7.69 |
| 35 | - | 1.60 | 2.00 | 2.45 | 2.95 | 3.54 | 4.25 | 5.12 | 6.23 |
| 40 | - | 1.37 | 1.74 | 2.13 | 2.56 | 3.05 | 3.62 | 4.31 | 5.16 |
| 45 | - | 1.17 | 1.51 | 1.86 | 2.23 | 2.65 | 3.13 | 3.69 | 4.36 |
| 50 | - | - | 1.32 | 1.64 | 1.96 | 2.32 | 2.72 | 3.18 | 3.73 |
| 55 | - | - | - | 1.44 | 1.73 | 2.05 | 2.39 | 2.78 | 3.23 |
| 60 | - | - | - | - | - | - | - | - | - |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 052 | W |
| Power input | 3 156 | W |
| Current consumption | 6.31 | A |
| Mass flow | 148 | kg/h |
| C.O.P. | 2.23 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 24 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.26 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 80 | 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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 35 | 1 645 | 2 349 | 4 415 | 5 878 | 7 694 | 9 914 | 12 588 | 15 766 | 19 498 |
| 40 | 1 392 | 2 043 | 3 958 | 5 322 | 7 025 | 9 115 | 11 645 | 14 663 | 18 220 |
| 45 | 1 163 | 1 761 | 3 526 | 4 792 | 6 381 | 8 343 | 10 728 | 13 587 | 16 969 |
| 50 | 957 | 1 504 | 3 119 | 4 287 | 5 763 | 7 597 | 9 838 | 12 538 | 15 746 |
| 55 | - | - | 2 738 | 3 809 | 5 172 | 6 878 | 8 976 | 11 517 | 14 552 |
| 60 | - | - | - | 3 358 | 4 609 | 6 187 | 8 142 | 10 526 | 13 386 |
| 65 | - | - | - | - | 4 073 | 5 524 | 7 338 | 9 563 | 12 251 |
| 75 | - | - | - | - | - | - | 5 818 | 7 729 | 10 073 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 191 | 1 419 | 1 828 | 2 002 | 2 152 | 2 276 | 2 370 | 2 432 | 2 458 |
| 40 | 1 148 | 1 396 | 1 848 | 2 046 | 2 222 | 2 372 | 2 494 | 2 585 | 2 642 |
| 45 | 1 109 | 1 380 | 1 882 | 2 107 | 2 311 | 2 491 | 2 645 | 2 768 | 2 859 |
| 50 | 1 064 | 1 361 | 1 919 | 2 175 | 2 411 | 2 624 | 2 812 | 2 972 | 3 100 |
| 55 | - | - | 1 950 | 2 240 | 2 511 | 2 760 | 2 986 | 3 185 | 3 354 |
| 60 | - | - | - | 2 292 | 2 601 | 2 890 | 3 157 | 3 398 | 3 611 |
| 65 | - | - | - | - | 2 672 | 3 005 | 3 316 | 3 602 | 3 862 |
| 75 | - | - | - | - | - | - | 3 555 | 3 943 | 4 306 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.20 | 5.16 | 5.25 | 5.36 | 5.48 | 5.61 | 5.73 | 5.83 | 5.89 |
| 40 | 5.18 | 5.15 | 5.27 | 5.39 | 5.53 | 5.68 | 5.82 | 5.93 | 6.01 |
| 45 | 5.15 | 5.15 | 5.31 | 5.45 | 5.62 | 5.79 | 5.95 | 6.09 | 6.20 |
| 50 | 5.11 | 5.13 | 5.36 | 5.53 | 5.73 | 5.93 | 6.13 | 6.30 | 6.44 |
| 55 | - | - | 5.39 | 5.60 | 5.84 | 6.08 | 6.32 | 6.54 | 6.72 |
| 60 | - | - | - | 5.66 | 5.94 | 6.24 | 6.53 | 6.80 | 7.03 |
| 65 | - | - | - | - | 6.03 | 6.38 | 6.73 | 7.05 | 7.35 |
| 75 | - | - | - | - | - | - | 7.04 | 7.52 | 7.96 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 41 | 59 | 105 | 137 | 175 | 221 | 275 | 339 | 414 |
| 40 | 37 | 54 | 99 | 130 | 168 | 213 | 267 | 330 | 404 |
| 45 | 33 | 49 | 93 | 123 | 160 | 205 | 259 | 321 | 395 |
| 50 | 29 | 44 | 87 | 117 | 153 | 197 | 250 | 313 | 386 |
| 55 | - | - | 81 | 110 | 146 | 190 | 242 | 304 | 376 |
| 60 | - | - | - | 104 | 139 | 182 | 234 | 295 | 367 |
| 65 | - | - | - | - | 133 | 175 | 226 | 287 | 358 |
| 75 | - | - | - | - | - | - | 211 | 271 | 341 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.38 | 1.66 | 2.42 | 2.94 | 3.57 | 4.36 | 5.31 | 6.48 | 7.93 |
| 40 | 1.21 | 1.46 | 2.14 | 2.60 | 3.16 | 3.84 | 4.67 | 5.67 | 6.90 |
| 45 | 1.05 | 1.28 | 1.87 | 2.27 | 2.76 | 3.35 | 4.06 | 4.91 | 5.93 |
| 50 | 0.90 | 1.11 | 1.63 | 1.97 | 2.39 | 2.89 | 3.50 | 4.22 | 5.08 |
| 55 | - | - | 1.40 | 1.70 | 2.06 | 2.49 | 3.01 | 3.62 | 4.34 |
| 60 | - | - | - | 1.47 | 1.77 | 2.14 | 2.58 | 3.10 | 3.71 |
| 65 | - | - | - | - | 1.52 | 1.84 | 2.21 | 2.65 | 3.17 |
| 75 | - | - | - | - | - | - | 1.64 | 1.96 | 2.34 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 597 | W |
| Power input | 2 624 | W |
| Current consumption | 5.93 | A |
| Mass flow | 197 | kg/h |
| C.O.P. | 2.89 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 788 | 2 548 | 4 774 | 6 345 | 8 293 | 10 670 | 13 528 | 16 920 | 20 898 |
| 40 | 1 522 | 2 229 | 4 302 | 5 775 | 7 608 | 9 857 | 12 572 | 15 806 | 19 612 |
| 45 | 1 280 | 1 934 | 3 855 | 5 229 | 6 949 | 9 069 | 11 642 | 14 719 | 18 354 |
| 50 | - | 1 664 | 3 434 | 4 709 | 6 317 | 8 309 | 10 740 | 13 661 | 17 126 |
| 55 | - | - | 3 039 | 4 216 | 5 711 | 7 577 | 9 866 | 12 633 | 15 929 |
| 60 | - | - | - | 3 751 | 5 134 | 6 874 | 9 023 | 11 636 | 14 764 |
| 65 | - | - | - | - | - | 6 201 | 8 212 | 10 672 | 13 636 |
| 75 | - | - | - | - | - | - | 6 694 | 8 859 | 11 502 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 191 | 1 419 | 1 828 | 2 002 | 2 152 | 2 276 | 2 370 | 2 432 | 2 458 |
| 40 | 1 148 | 1 396 | 1 848 | 2 046 | 2 222 | 2 372 | 2 494 | 2 585 | 2 642 |
| 45 | 1 109 | 1 380 | 1 882 | 2 107 | 2 311 | 2 491 | 2 645 | 2 768 | 2 859 |
| 50 | - | 1 361 | 1 919 | 2 175 | 2 411 | 2 624 | 2 812 | 2 972 | 3 100 |
| 55 | - | - | 1 950 | 2 240 | 2 511 | 2 760 | 2 986 | 3 185 | 3 354 |
| 60 | - | - | - | 2 292 | 2 601 | 2 890 | 3 157 | 3 398 | 3 611 |
| 65 | - | - | - | - | - | 3 005 | 3 316 | 3 602 | 3 862 |
| 75 | - | - | - | - | - | - | 3 555 | 3 943 | 4 306 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.20 | 5.16 | 5.25 | 5.36 | 5.48 | 5.61 | 5.73 | 5.83 | 5.89 |
| 40 | 5.18 | 5.15 | 5.27 | 5.39 | 5.53 | 5.68 | 5.82 | 5.93 | 6.01 |
| 45 | 5.15 | 5.15 | 5.31 | 5.45 | 5.62 | 5.79 | 5.95 | 6.09 | 6.20 |
| 50 | - | 5.13 | 5.36 | 5.53 | 5.73 | 5.93 | 6.13 | 6.30 | 6.44 |
| 55 | - | - | 5.39 | 5.60 | 5.84 | 6.08 | 6.32 | 6.54 | 6.72 |
| 60 | - | - | - | 5.66 | 5.94 | 6.24 | 6.53 | 6.80 | 7.03 |
| 65 | - | - | - | - | - | 6.38 | 6.73 | 7.05 | 7.35 |
| 75 | - | - | - | - | - | - | 7.04 | 7.52 | 7.96 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 41 | 58 | 105 | 136 | 174 | 220 | 274 | 337 | 411 |
| 40 | 37 | 53 | 99 | 129 | 167 | 212 | 265 | 329 | 402 |
| 45 | 33 | 49 | 93 | 123 | 160 | 204 | 257 | 320 | 393 |
| 50 | - | 44 | 87 | 116 | 152 | 196 | 249 | 311 | 383 |
| 55 | - | - | 81 | 110 | 145 | 189 | 241 | 302 | 374 |
| 60 | - | - | - | 104 | 139 | 181 | 233 | 293 | 365 |
| 65 | - | - | - | - | - | 174 | 225 | 285 | 356 |
| 75 | - | - | - | - | - | - | 210 | 269 | 339 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.50 | 1.80 | 2.61 | 3.17 | 3.85 | 4.69 | 5.71 | 6.96 | 8.50 |
| 40 | 1.33 | 1.60 | 2.33 | 2.82 | 3.42 | 4.16 | 5.04 | 6.11 | 7.42 |
| 45 | 1.15 | 1.40 | 2.05 | 2.48 | 3.01 | 3.64 | 4.40 | 5.32 | 6.42 |
| 50 | - | 1.22 | 1.79 | 2.17 | 2.62 | 3.17 | 3.82 | 4.60 | 5.52 |
| 55 | - | - | 1.56 | 1.88 | 2.27 | 2.74 | 3.30 | 3.97 | 4.75 |
| 60 | - | - | - | 1.64 | 1.97 | 2.38 | 2.86 | 3.42 | 4.09 |
| 65 | - | - | - | - | - | 2.06 | 2.48 | 2.96 | 3.53 |
| 75 | - | - | - | - | - | - | 1.88 | 2.25 | 2.67 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 622 | W |
| Power input | 2 845 | W |
| Current consumption | 6.17 | A |
| Mass flow | 211 | kg/h |
| C.O.P. | 3.03 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 227 | 7 074 | 9 303 | 11 962 | 15 099 | 18 762 | 23 001 | - | - |
| 40 | 4 691 | 6 432 | 8 527 | 11 023 | 13 968 | 17 412 | 21 402 | - | - |
| 45 | 4 153 | 5 787 | 7 745 | 10 076 | 12 828 | 16 050 | 19 789 | - | - |
| 50 | - | 5 141 | 6 961 | 9 125 | 11 682 | 14 680 | 18 167 | - | - |
| 55 | - | - | 6 179 | 8 174 | 10 534 | 13 306 | 16 539 | - | - |
| 60 | - | - | - | 7 226 | 9 387 | 11 931 | 14 908 | - | - |
| 65 | - | - | - | 6 285 | 8 245 | 10 560 | 13 278 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 398 | 2 677 | 2 912 | 3 111 | 3 281 | 3 430 | 3 564 | - | - |
| 40 | 2 469 | 2 803 | 3 086 | 3 324 | 3 525 | 3 697 | 3 846 | - | - |
| 45 | 2 502 | 2 902 | 3 243 | 3 531 | 3 775 | 3 981 | 4 157 | - | - |
| 50 | - | 2 965 | 3 375 | 3 725 | 4 022 | 4 273 | 4 487 | - | - |
| 55 | - | - | 3 472 | 3 894 | 4 256 | 4 565 | 4 827 | - | - |
| 60 | - | - | - | 4 032 | 4 469 | 4 846 | 5 168 | - | - |
| 65 | - | - | - | 4 127 | 4 652 | 5 107 | 5 500 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.55 | 5.83 | 6.11 | 6.37 | 6.61 | 6.81 | 6.96 | - | - |
| 40 | 5.63 | 5.96 | 6.28 | 6.59 | 6.86 | 7.09 | 7.26 | - | - |
| 45 | 5.69 | 6.08 | 6.46 | 6.82 | 7.14 | 7.42 | 7.64 | - | - |
| 50 | - | 6.17 | 6.63 | 7.06 | 7.45 | 7.79 | 8.07 | - | - |
| 55 | - | - | 6.77 | 7.29 | 7.76 | 8.18 | 8.54 | - | - |
| 60 | - | - | - | 7.48 | 8.06 | 8.57 | 9.02 | - | - |
| 65 | - | - | - | 7.62 | 8.31 | 8.94 | 9.50 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 113 | 151 | 195 | 247 | 307 | 377 | 456 | - | - |
| 40 | 107 | 144 | 188 | 239 | 298 | 366 | 444 | - | - |
| 45 | 100 | 137 | 180 | 230 | 288 | 355 | 431 | - | - |
| 50 | - | 129 | 171 | 220 | 277 | 343 | 418 | - | - |
| 55 | - | - | 162 | 210 | 266 | 330 | 403 | - | - |
| 60 | - | - | - | 199 | 253 | 316 | 388 | - | - |
| 65 | - | - | - | 187 | 240 | 301 | 371 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.18 | 2.64 | 3.19 | 3.84 | 4.60 | 5.47 | 6.45 | - | - |
| 40 | 1.90 | 2.29 | 2.76 | 3.32 | 3.96 | 4.71 | 5.56 | - | - |
| 45 | 1.66 | 1.99 | 2.39 | 2.85 | 3.40 | 4.03 | 4.76 | - | - |
| 50 | - | 1.73 | 2.06 | 2.45 | 2.90 | 3.44 | 4.05 | - | - |
| 55 | - | - | 1.78 | 2.10 | 2.47 | 2.92 | 3.43 | - | - |
| 60 | - | - | - | 1.79 | 2.10 | 2.46 | 2.88 | - | - |
| 65 | - | - | - | 1.52 | 1.77 | 2.07 | 2.41 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 11 682 | W |
| Power input | 4 022 | W |
| Current consumption | 7.45 | A |
| Mass flow | 277 | kg/h |
| C.O.P. | 2.90 | |


Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 626 | 7 605 | 9 990 | 12 830 | 16 177 | 20 081 | 24 592 | - | - |
| 40 | 5 076 | 6 952 | 9 203 | 11 882 | 15 039 | 18 725 | 22 990 | - | - |
| 45 | 4 523 | 6 293 | 8 410 | 10 925 | 13 891 | 17 357 | 21 375 | - | - |
| 50 | - | 5 631 | 7 612 | 9 963 | 12 735 | 15 980 | 19 749 | - | - |
| 55 | - | - | 6 815 | 8 999 | 11 577 | 14 599 | 18 118 | - | - |
| 60 | - | - | - | 8 038 | 10 419 | 13 218 | 16 486 | - | - |
| 65 | - | - | - | 7 083 | 9 268 | 11 843 | 14 861 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 398 | 2 677 | 2 912 | 3 111 | 3 281 | 3 430 | 3 564 | - | - |
| 40 | 2 469 | 2 803 | 3 086 | 3 324 | 3 525 | 3 697 | 3 846 | - | - |
| 45 | 2 502 | 2 902 | 3 243 | 3 531 | 3 775 | 3 981 | 4 157 | - | - |
| 50 | - | 2 965 | 3 375 | 3 725 | 4 022 | 4 273 | 4 487 | - | - |
| 55 | - | - | 3 472 | 3 894 | 4 256 | 4 565 | 4 827 | - | - |
| 60 | - | - | - | 4 032 | 4 469 | 4 846 | 5 168 | - | - |
| 65 | - | - | - | 4 127 | 4 652 | 5 107 | 5 500 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.55 | 5.83 | 6.11 | 6.37 | 6.61 | 6.81 | 6.96 | - | - |
| 40 | 5.63 | 5.96 | 6.28 | 6.59 | 6.86 | 7.09 | 7.26 | - | - |
| 45 | 5.69 | 6.08 | 6.46 | 6.82 | 7.14 | 7.42 | 7.64 | - | - |
| 50 | - | 6.17 | 6.63 | 7.06 | 7.45 | 7.79 | 8.07 | - | - |
| 55 | - | - | 6.77 | 7.29 | 7.76 | 8.18 | 8.54 | - | - |
| 60 | - | - | - | 7.48 | 8.06 | 8.57 | 9.02 | - | - |
| 65 | - | - | - | 7.62 | 8.31 | 8.94 | 9.50 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 113 | 150 | 194 | 246 | 306 | 374 | 453 | - | - |
| 40 | 106 | 143 | 187 | 238 | 296 | 364 | 441 | - | - |
| 45 | 100 | 136 | 179 | 229 | 286 | 353 | 428 | - | - |
| 50 | - | 128 | 170 | 219 | 276 | 341 | 415 | - | - |
| 55 | - | - | 161 | 209 | 264 | 328 | 401 | - | - |
| 60 | - | - | - | 198 | 252 | 314 | 385 | - | - |
| 65 | - | - | - | 186 | 239 | 300 | 369 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.35 | 2.84 | 3.43 | 4.12 | 4.93 | 5.85 | 6.90 | - | - |
| 40 | 2.06 | 2.48 | 2.98 | 3.57 | 4.27 | 5.07 | 5.98 | - | - |
| 45 | 1.81 | 2.17 | 2.59 | 3.09 | 3.68 | 4.36 | 5.14 | - | - |
| 50 | - | 1.90 | 2.26 | 2.67 | 3.17 | 3.74 | 4.40 | - | - |
| 55 | - | - | 1.96 | 2.31 | 2.72 | 3.20 | 3.75 | - | - |
| 60 | - | - | - | 1.99 | 2.33 | 2.73 | 3.19 | - | - |
| 65 | - | - | - | 1.72 | 1.99 | 2.32 | 2.70 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 12 999 | W |
| Power input | 4 367 | W |
| Current consumption | 7.91 | A |
| Mass flow | 293 | kg/h |
| C.O.P. | 2.98 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 847 | 9 024 | 11 655 | 14 801 | 18 524 | 22 886 | 27 950 | - | - |
| 40 | 6 200 | 8 245 | 10 713 | 13 663 | 17 158 | 21 260 | 26 031 | - | - |
| 45 | 5 557 | 7 470 | 9 772 | 12 525 | 15 791 | 19 631 | 24 106 | - | - |
| 50 | - | 6 700 | 8 836 | 11 390 | 14 425 | 18 001 | 22 179 | - | - |
| 55 | - | - | 7 908 | 10 262 | 13 064 | 16 373 | 20 252 | - | - |
| 60 | - | - | - | 9 143 | 11 709 | 14 750 | 18 327 | - | - |
| 65 | - | - | - | 8 035 | 10 363 | 13 132 | 16 403 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 072 | 3 388 | 3 655 | 3 886 | 4 093 | 4 291 | 4 492 | - | - |
| 40 | 3 174 | 3 551 | 3 871 | 4 147 | 4 393 | 4 622 | 4 846 | - | - |
| 45 | 3 239 | 3 685 | 4 068 | 4 399 | 4 692 | 4 961 | 5 218 | - | - |
| 50 | - | 3 786 | 4 240 | 4 635 | 4 984 | 5 302 | 5 600 | - | - |
| 55 | - | - | 4 382 | 4 849 | 5 264 | 5 639 | 5 988 | - | - |
| 60 | - | - | - | 5 037 | 5 526 | 5 968 | 6 376 | - | - |
| 65 | - | - | - | 5 192 | 5 764 | 6 281 | 6 758 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.37 | 5.69 | 5.96 | 6.21 | 6.43 | 6.63 | 6.81 | - | - |
| 40 | 5.48 | 5.87 | 6.21 | 6.52 | 6.80 | 7.06 | 7.30 | - | - |
| 45 | 5.56 | 6.02 | 6.44 | 6.82 | 7.17 | 7.49 | 7.79 | - | - |
| 50 | - | 6.14 | 6.64 | 7.10 | 7.52 | 7.92 | 8.29 | - | - |
| 55 | - | - | 6.81 | 7.35 | 7.86 | 8.33 | 8.77 | - | - |
| 60 | - | - | - | 7.57 | 8.16 | 8.72 | 9.24 | - | - |
| 65 | - | - | - | 7.75 | 8.44 | 9.08 | 9.69 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 149 | 193 | 245 | 306 | 377 | 459 | 554 | - | - |
| 40 | 141 | 185 | 236 | 296 | 366 | 447 | 540 | - | - |
| 45 | 134 | 177 | 227 | 286 | 355 | 434 | 525 | - | - |
| 50 | - | 168 | 217 | 275 | 342 | 420 | 510 | - | - |
| 55 | - | - | 207 | 264 | 330 | 406 | 494 | - | - |
| 60 | - | - | - | 252 | 316 | 391 | 477 | - | - |
| 65 | - | - | - | 239 | 302 | 375 | 459 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.23 | 2.66 | 3.19 | 3.81 | 4.53 | 5.33 | 6.22 | - | - |
| 40 | 1.95 | 2.32 | 2.77 | 3.29 | 3.91 | 4.60 | 5.37 | - | - |
| 45 | 1.72 | 2.03 | 2.40 | 2.85 | 3.37 | 3.96 | 4.62 | - | - |
| 50 | - | 1.77 | 2.08 | 2.46 | 2.89 | 3.40 | 3.96 | - | - |
| 55 | - | - | 1.80 | 2.12 | 2.48 | 2.90 | 3.38 | - | - |
| 60 | - | - | - | 1.82 | 2.12 | 2.47 | 2.87 | - | - |
| 65 | - | - | - | 1.55 | 1.80 | 2.09 | 2.43 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 14 425 | W |
| Power input | 4 984 | W |
| Current consumption | 7.52 | A |
| Mass flow | 342 | kg/h |
| C.O.P. | 2.89 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 79 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, ARI rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 7 370 | 9 701 | 12 515 | 15 875 | 19 846 | 24 494 | 29 884 | - | - |
| 40 | 6 710 | 8 911 | 11 562 | 14 728 | 18 474 | 22 864 | 27 963 | - | - |
| 45 | 6 053 | 8 123 | 10 611 | 13 581 | 17 099 | 21 230 | 26 037 | - | - |
| 50 | - | 7 340 | 9 663 | 12 436 | 15 725 | 19 595 | 24 110 | - | - |
| 55 | - | - | 8 722 | 11 298 | 14 357 | 17 965 | 22 186 | - | - |
| 60 | - | - | - | 10 169 | 12 997 | 16 341 | 20 267 | - | - |
| 65 | - | - | - | 9 054 | 11 649 | 14 729 | 18 358 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 072 | 3 388 | 3 655 | 3 886 | 4 093 | 4 291 | 4 492 | - | - |
| 40 | 3 174 | 3 551 | 3 871 | 4 147 | 4 393 | 4 622 | 4 846 | - | - |
| 45 | 3 239 | 3 685 | 4 068 | 4 399 | 4 692 | 4 961 | 5 218 | - | - |
| 50 | - | 3 786 | 4 240 | 4 635 | 4 984 | 5 302 | 5 600 | - | - |
| 55 | - | - | 4 382 | 4 849 | 5 264 | 5 639 | 5 988 | - | - |
| 60 | - | - | - | 5 037 | 5 526 | 5 968 | 6 376 | - | - |
| 65 | - | - | - | 5 192 | 5 764 | 6 281 | 6 758 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.37 | 5.69 | 5.96 | 6.21 | 6.43 | 6.63 | 6.81 | - | - |
| 40 | 5.48 | 5.87 | 6.21 | 6.52 | 6.80 | 7.06 | 7.30 | - | - |
| 45 | 5.56 | 6.02 | 6.44 | 6.82 | 7.17 | 7.49 | 7.79 | - | - |
| 50 | - | 6.14 | 6.64 | 7.10 | 7.52 | 7.92 | 8.29 | - | - |
| 55 | - | - | 6.81 | 7.35 | 7.86 | 8.33 | 8.77 | - | - |
| 60 | - | - | - | 7.57 | 8.16 | 8.72 | 9.24 | - | - |
| 65 | - | - | - | 7.75 | 8.44 | 9.08 | 9.69 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 148 | 192 | 243 | 304 | 375 | 457 | 550 | - | - |
| 40 | 141 | 184 | 235 | 294 | 364 | 444 | 536 | - | - |
| 45 | 133 | 176 | 226 | 284 | 352 | 431 | 522 | - | - |
| 50 | - | 167 | 216 | 273 | 340 | 418 | 507 | - | - |
| 55 | - | - | 206 | 262 | 328 | 403 | 491 | - | - |
| 60 | - | - | - | 250 | 314 | 388 | 474 | - | - |
| 65 | - | - | - | 238 | 300 | 373 | 456 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.40 | 2.86 | 3.42 | 4.09 | 4.85 | 5.71 | 6.65 | - | - |
| 40 | 2.11 | 2.51 | 2.99 | 3.55 | 4.20 | 4.95 | 5.77 | - | - |
| 45 | 1.87 | 2.20 | 2.61 | 3.09 | 3.64 | 4.28 | 4.99 | - | - |
| 50 | - | 1.94 | 2.28 | 2.68 | 3.16 | 3.70 | 4.31 | - | - |
| 55 | - | - | 1.99 | 2.33 | 2.73 | 3.19 | 3.71 | - | - |
| 60 | - | - | - | 2.02 | 2.35 | 2.74 | 3.18 | - | - |
| 65 | - | - | - | 1.74 | 2.02 | 2.34 | 2.72 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 16 050 | W |
| Power input | 5 397 | W |
| Current consumption | 8.03 | A |
| Mass flow | 361 | kg/h |
| C.O.P. | 2.97 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 79 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 974 | 2 818 | 5 298 | 7 054 | 9 233 | 11 897 | 15 106 | 18 919 | 23 398 |
| 40 | 1 670 | 2 452 | 4 750 | 6 387 | 8 430 | 10 939 | 13 974 | 17 595 | 21 864 |
| 45 | 1 395 | 2 114 | 4 231 | 5 750 | 7 657 | 10 011 | 12 873 | 16 304 | 20 363 |
| 50 | 1 149 | 1 805 | 3 743 | 5 144 | 6 916 | 9 116 | 11 806 | 15 045 | 18 895 |
| 55 | - | - | 3 285 | 4 571 | 6 206 | 8 253 | 10 771 | 13 821 | 17 462 |
| 60 | - | - | - | 4 029 | 5 530 | 7 424 | 9 771 | 12 631 | 16 064 |
| 65 | - | - | - | - | 4 888 | 6 629 | 8 805 | 11 476 | 14 702 |
| 75 | - | - | - | - | - | - | 6 981 | 9 275 | 12 088 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 429 | 1 703 | 2 193 | 2 402 | 2 583 | 2 731 | 2 844 | 2 918 | 2 949 |
| 40 | 1 377 | 1 675 | 2 217 | 2 455 | 2 666 | 2 847 | 2 993 | 3 102 | 3 170 |
| 45 | 1 330 | 1 655 | 2 258 | 2 528 | 2 773 | 2 990 | 3 174 | 3 322 | 3 431 |
| 50 | 1 276 | 1 633 | 2 303 | 2 610 | 2 893 | 3 149 | 3 374 | 3 566 | 3 720 |
| 55 | - | - | 2 340 | 2 687 | 3 013 | 3 312 | 3 583 | 3 822 | 4 025 |
| 60 | - | - | - | 2 750 | 3 121 | 3 469 | 3 789 | 4 078 | 4 334 |
| 65 | - | - | - | - | 3 207 | 3 605 | 3 979 | 4 323 | 4 635 |
| 75 | - | - | - | - | - | - | 4 266 | 4 731 | 5 167 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.42 | 5.38 | 5.48 | 5.59 | 5.72 | 5.85 | 5.98 | 6.08 | 6.14 |
| 40 | 5.40 | 5.37 | 5.50 | 5.62 | 5.77 | 5.92 | 6.07 | 6.19 | 6.27 |
| 45 | 5.37 | 5.37 | 5.54 | 5.69 | 5.86 | 6.04 | 6.21 | 6.35 | 6.46 |
| 50 | 5.33 | 5.35 | 5.59 | 5.77 | 5.97 | 6.18 | 6.39 | 6.57 | 6.72 |
| 55 | - | - | 5.62 | 5.84 | 6.09 | 6.35 | 6.59 | 6.82 | 7.01 |
| 60 | - | - | - | 5.90 | 6.20 | 6.51 | 6.81 | 7.09 | 7.33 |
| 65 | - | - | - | - | 6.29 | 6.65 | 7.02 | 7.36 | 7.66 |
| 75 | - | - | - | - | - | - | 7.35 | 7.84 | 8.30 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 50 | 70 | 126 | 164 | 210 | 265 | 330 | 407 | 496 |
| 40 | 45 | 64 | 119 | 156 | 201 | 256 | 320 | 396 | 485 |
| 45 | 40 | 59 | 112 | 148 | 193 | 246 | 310 | 386 | 474 |
| 50 | 35 | 53 | 105 | 140 | 184 | 237 | 300 | 375 | 463 |
| 55 | - | - | 98 | 132 | 175 | 228 | 290 | 364 | 451 |
| 60 | - | - | - | 125 | 167 | 219 | 281 | 354 | 440 |
| 65 | - | - | - | - | 159 | 210 | 271 | 344 | 430 |
| 75 | - | - | - | - | - | - | 254 | 325 | 409 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.38 | 1.66 | 2.42 | 2.94 | 3.57 | 4.36 | 5.31 | 6.48 | 7.93 |
| 40 | 1.21 | 1.46 | 2.14 | 2.60 | 3.16 | 3.84 | 4.67 | 5.67 | 6.90 |
| 45 | 1.05 | 1.28 | 1.87 | 2.27 | 2.76 | 3.35 | 4.06 | 4.91 | 5.93 |
| 50 | 0.90 | 1.11 | 1.63 | 1.97 | 2.39 | 2.89 | 3.50 | 4.22 | 5.08 |
| 55 | - | - | 1.40 | 1.70 | 2.06 | 2.49 | 3.01 | 3.62 | 4.34 |
| 60 | - | - | - | 1.47 | 1.77 | 2.14 | 2.58 | 3.10 | 3.71 |
| 65 | - | - | - | - | 1.52 | 1.84 | 2.21 | 2.65 | 3.17 |
| 75 | - | - | - | - | - | - | 1.64 | 1.96 | 2.34 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 116 | W |
| Power input | 3 149 | W |
| Current consumption | 6.18 | A |
| Mass flow | 237 | kg/h |
| C.O.P. | 2.89 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 60 Hz, ARI rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 2 146 | 3 058 | 5 729 | 7 614 | 9 952 | 12 804 | 16 234 | 20 304 | 25 078 |
| 40 | 1 827 | 2 675 | 5 162 | 6 929 | 9 130 | 11 828 | 15 086 | 18 967 | 23 534 |
| 45 | 1 536 | 2 321 | 4 626 | 6 275 | 8 339 | 10 883 | 13 970 | 17 663 | 22 025 |
| 50 | - | 1 997 | 4 121 | 5 651 | 7 580 | 9 971 | 12 887 | 16 393 | 20 551 |
| 55 | - | - | 3 647 | 5 060 | 6 853 | 9 092 | 11 839 | 15 159 | 19 114 |
| 60 | - | - | - | 4 501 | 6 161 | 8 248 | 10 828 | 13 963 | 17 717 |
| 65 | - | - | - | - | - | 7 441 | 9 854 | 12 807 | 16 363 |
| 75 | - | - | - | - | - | - | 8 033 | 10 630 | 13 802 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 429 | 1 703 | 2 193 | 2 402 | 2 583 | 2 731 | 2 844 | 2 918 | 2 949 |
| 40 | 1 377 | 1 675 | 2 217 | 2 455 | 2 666 | 2 847 | 2 993 | 3 102 | 3 170 |
| 45 | 1 330 | 1 655 | 2 258 | 2 528 | 2 773 | 2 990 | 3 174 | 3 322 | 3 431 |
| 50 | - | 1 633 | 2 303 | 2 610 | 2 893 | 3 149 | 3 374 | 3 566 | 3 720 |
| 55 | - | - | 2 340 | 2 687 | 3 013 | 3 312 | 3 583 | 3 822 | 4 025 |
| 60 | - | - | - | 2 750 | 3 121 | 3 469 | 3 789 | 4 078 | 4 334 |
| 65 | - | - | - | - | - | 3 605 | 3 979 | 4 323 | 4 635 |
| 75 | - | - | - | - | - | - | 4 266 | 4 731 | 5 167 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.42 | 5.38 | 5.48 | 5.59 | 5.72 | 5.85 | 5.98 | 6.08 | 6.14 |
| 40 | 5.40 | 5.37 | 5.50 | 5.62 | 5.77 | 5.92 | 6.07 | 6.19 | 6.27 |
| 45 | 5.37 | 5.37 | 5.54 | 5.69 | 5.86 | 6.04 | 6.21 | 6.35 | 6.46 |
| 50 | - | 5.35 | 5.59 | 5.77 | 5.97 | 6.18 | 6.39 | 6.57 | 6.72 |
| 55 | - | - | 5.62 | 5.84 | 6.09 | 6.35 | 6.59 | 6.82 | 7.01 |
| 60 | - | - | - | 5.90 | 6.20 | 6.51 | 6.81 | 7.09 | 7.33 |
| 65 | - | - | - | - | - | 6.65 | 7.02 | 7.36 | 7.66 |
| 75 | - | - | - | - | - | - | 7.35 | 7.84 | 8.30 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 49 | 70 | 126 | 163 | 209 | 264 | 329 | 405 | 494 |
| 40 | 44 | 64 | 118 | 155 | 200 | 254 | 319 | 394 | 482 |
| 45 | 40 | 58 | 111 | 147 | 192 | 245 | 309 | 384 | 471 |
| 50 | - | 53 | 104 | 139 | 183 | 236 | 299 | 373 | 460 |
| 55 | - | - | 97 | 132 | 174 | 226 | 289 | 362 | 449 |
| 60 | - | - | - | 124 | 166 | 217 | 279 | 352 | 438 |
| 65 | - | - | - | - | - | 209 | 270 | 342 | 427 |
| 75 | - | - | - | - | - | - | 252 | 323 | 407 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.50 | 1.80 | 2.61 | 3.17 | 3.85 | 4.69 | 5.71 | 6.96 | 8.50 |
| 40 | 1.33 | 1.60 | 2.33 | 2.82 | 3.42 | 4.16 | 5.04 | 6.11 | 7.42 |
| 45 | 1.15 | 1.40 | 2.05 | 2.48 | 3.01 | 3.64 | 4.40 | 5.32 | 6.42 |
| 50 | - | 1.22 | 1.79 | 2.17 | 2.62 | 3.17 | 3.82 | 4.60 | 5.52 |
| 55 | - | - | 1.56 | 1.88 | 2.27 | 2.74 | 3.30 | 3.97 | 4.75 |
| 60 | - | - | - | 1.64 | 1.97 | 2.38 | 2.86 | 3.42 | 4.09 |
| 65 | - | - | - | - | - | 2.06 | 2.48 | 2.96 | 3.53 |
| 75 | - | - | - | - | - | - | 1.88 | 2.25 | 2.67 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 347 | W |
| Power input | 3 413 | W |
| Current consumption | 6.44 | A |
| Mass flow | 254 | kg/h |
| C.O.P. | 3.03 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions
R404A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 911 | 5 473 | 7 362 | 9 615 | 12 269 | 15 361 | 18 928 | 23 009 | 27 641 |
| 35 | 3 327 | 4 799 | 6 572 | 8 683 | 11 170 | 14 070 | 17 419 | 21 257 | 25 619 |
| 40 | 2 742 | 4 115 | 5 763 | 7 725 | 10 036 | 12 735 | 15 858 | 19 443 | 23 528 |
| 45 | 2 164 | 3 429 | 4 944 | 6 747 | 8 874 | 11 363 | 14 252 | 17 577 | 21 375 |
| 50 | 1 601 | 2 749 | 4 123 | 5 758 | 7 693 | 9 964 | 12 609 | 15 665 | 19 168 |
| 55 | - | 2 083 | 3 306 | 4 766 | 6 500 | 8 544 | 10 937 | 13 715 | 16 915 |
| 60 | - | 1 439 | 2 503 | 3 779 | 5 303 | 7 112 | 9 243 | 11 735 | 14 623 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 670 | 3 093 | 3 459 | 3 783 | 4 078 | 4 356 | 4 632 | 4 919 | 5 230 |
| 35 | 2 638 | 3 129 | 3 554 | 3 926 | 4 259 | 4 566 | 4 861 | 5 157 | 5 467 |
| 40 | 2 554 | 3 124 | 3 618 | 4 049 | 4 431 | 4 778 | 5 102 | 5 417 | 5 737 |
| 45 | 2 409 | 3 068 | 3 641 | 4 142 | 4 584 | 4 981 | 5 345 | 5 690 | 6 030 |
| 50 | 2 191 | 2 950 | 3 614 | 4 195 | 4 707 | 5 164 | 5 579 | 5 965 | 6 336 |
| 55 | - | 2 760 | 3 524 | 4 196 | 4 790 | 5 317 | 5 793 | 6 231 | 6 643 |
| 60 | - | 2 487 | 3 363 | 4 136 | 4 821 | 5 431 | 5 979 | 6 478 | 6 942 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.92 | 5.37 | 5.80 | 6.20 | 6.55 | 6.84 | 7.06 | 7.18 | 7.20 |
| 35 | 4.91 | 5.40 | 5.87 | 6.31 | 6.70 | 7.04 | 7.31 | 7.48 | 7.56 |
| 40 | 4.87 | 5.40 | 5.93 | 6.42 | 6.88 | 7.27 | 7.60 | 7.84 | 7.98 |
| 45 | 4.76 | 5.36 | 5.96 | 6.52 | 7.05 | 7.52 | 7.92 | 8.24 | 8.46 |
| 50 | 4.58 | 5.26 | 5.93 | 6.58 | 7.19 | 7.75 | 8.24 | 8.65 | 8.96 |
| 55 | - | 5.07 | 5.83 | 6.58 | 7.29 | 7.95 | 8.54 | 9.05 | 9.47 |
| 60 | - | 4.76 | 5.64 | 6.49 | 7.31 | 8.09 | 8.80 | 9.43 | 9.97 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 123 | 168 | 221 | 281 | 350 | 428 | 517 | 616 | 727 |
| 35 | 113 | 158 | 211 | 271 | 340 | 418 | 505 | 604 | 714 |
| 40 | 101 | 147 | 199 | 260 | 328 | 405 | 493 | 590 | 700 |
| 45 | 87 | 133 | 186 | 246 | 314 | 392 | 478 | 575 | 684 |
| 50 | 72 | 118 | 171 | 231 | 299 | 376 | 462 | 558 | 666 |
| 55 | - | 101 | 154 | 214 | 282 | 358 | 443 | 539 | 646 |
| 60 | - | 81 | 134 | 194 | 262 | 338 | 423 | 518 | 623 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.46 | 1.77 | 2.13 | 2.54 | 3.01 | 3.53 | 4.09 | 4.68 | 5.29 |
| 35 | 1.26 | 1.53 | 1.85 | 2.21 | 2.62 | 3.08 | 3.58 | 4.12 | 4.69 |
| 40 | 1.07 | 1.32 | 1.59 | 1.91 | 2.26 | 2.67 | 3.11 | 3.59 | 4.10 |
| 45 | 0.90 | 1.12 | 1.36 | 1.63 | 1.94 | 2.28 | 2.67 | 3.09 | 3.54 |
| 50 | 0.73 | 0.93 | 1.14 | 1.37 | 1.63 | 1.93 | 2.26 | 2.63 | 3.03 |
| 55 | - | 0.75 | 0.94 | 1.14 | 1.36 | 1.61 | 1.89 | 2.20 | 2.55 |
| 60 | - | 0.58 | 0.74 | 0.91 | 1.10 | 1.31 | 1.55 | 1.81 | 2.11 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 874 | W |
| Power input | 4 584 | W |
| Current consumption | 7.05 | A |
| Mass flow | 314 | kg/h |
| C.O.P. | 1.94 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.7 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 84 | dB(A) |
| With acoustic hood | 77 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, ARI rating conditions
R404A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 30 | 4 353 | 6 076 | 8 152 | 10 621 | 13 521 | 16 892 | 20 772 | 25 200 | 30 216 |
| 35 | 3 743 | 5 382 | 7 349 | 9 682 | 12 422 | 15 607 | 19 277 | 23 471 | 28 229 |
| 40 | 3 126 | 4 673 | 6 522 | 8 712 | 11 284 | 14 276 | 17 729 | 21 681 | 26 172 |
| 45 | 2 508 | 3 956 | 5 680 | 7 720 | 10 116 | 12 908 | 16 136 | 19 839 | 24 058 |
| 50 | 1 896 | 3 238 | 4 829 | 6 712 | 8 926 | 11 512 | 14 510 | 17 959 | 21 901 |
| 55 | - | 2 524 | 3 979 | 5 699 | 7 726 | 10 101 | 12 865 | 16 058 | 19 721 |
| 60 | - | 1 819 | 3 134 | 4 691 | 6 530 | 8 695 | 11 226 | 14 165 | 17 553 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 670 | 3 093 | 3 459 | 3 783 | 4 078 | 4 356 | 4 632 | 4 919 | 5 230 |
| 35 | 2 638 | 3 129 | 3 554 | 3 926 | 4 259 | 4 566 | 4 861 | 5 157 | 5 467 |
| 40 | 2 554 | 3 124 | 3 618 | 4 049 | 4 431 | 4 778 | 5 102 | 5 417 | 5 737 |
| 45 | 2 409 | 3 068 | 3 641 | 4 142 | 4 584 | 4 981 | 5 345 | 5 690 | 6 030 |
| 50 | 2 191 | 2 950 | 3 614 | 4 195 | 4 707 | 5 164 | 5 579 | 5 965 | 6 336 |
| 55 | - | 2 760 | 3 524 | 4 196 | 4 790 | 5 317 | 5 793 | 6 231 | 6 643 |
| 60 | - | 2 487 | 3 363 | 4 136 | 4 821 | 5 431 | 5 979 | 6 478 | 6 942 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.92 | 5.37 | 5.80 | 6.20 | 6.55 | 6.84 | 7.06 | 7.18 | 7.20 |
| 35 | 4.91 | 5.40 | 5.87 | 6.31 | 6.70 | 7.04 | 7.31 | 7.48 | 7.56 |
| 40 | 4.87 | 5.40 | 5.93 | 6.42 | 6.88 | 7.27 | 7.60 | 7.84 | 7.98 |
| 45 | 4.76 | 5.36 | 5.96 | 6.52 | 7.05 | 7.52 | 7.92 | 8.24 | 8.46 |
| 50 | 4.58 | 5.26 | 5.93 | 6.58 | 7.19 | 7.75 | 8.24 | 8.65 | 8.96 |
| 55 | - | 5.07 | 5.83 | 6.58 | 7.29 | 7.95 | 8.54 | 9.05 | 9.47 |
| 60 | - | 4.76 | 5.64 | 6.49 | 7.31 | 8.09 | 8.80 | 9.43 | 9.97 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 122 | 168 | 220 | 280 | 348 | 426 | 513 | 612 | 722 |
| 35 | 112 | 157 | 210 | 270 | 338 | 415 | 502 | 600 | 709 |
| 40 | 100 | 146 | 198 | 258 | 326 | 403 | 489 | 587 | 695 |
| 45 | 87 | 133 | 185 | 245 | 313 | 389 | 475 | 572 | 679 |
| 50 | 71 | 118 | 170 | 230 | 297 | 373 | 459 | 555 | 661 |
| 55 | - | 100 | 153 | 213 | 280 | 356 | 441 | 536 | 641 |
| 60 | - | 81 | 134 | 193 | 260 | 336 | 420 | 514 | 619 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.63 | 1.96 | 2.36 | 2.81 | 3.32 | 3.88 | 4.48 | 5.12 | 5.78 |
| 35 | 1.42 | 1.72 | 2.07 | 2.47 | 2.92 | 3.42 | 3.97 | 4.55 | 5.16 |
| 40 | 1.22 | 1.50 | 1.80 | 2.15 | 2.55 | 2.99 | 3.47 | 4.00 | 4.56 |
| 45 | 1.04 | 1.29 | 1.56 | 1.86 | 2.21 | 2.59 | 3.02 | 3.49 | 3.99 |
| 50 | 0.87 | 1.10 | 1.34 | 1.60 | 1.90 | 2.23 | 2.60 | 3.01 | 3.46 |
| 55 | - | 0.91 | 1.13 | 1.36 | 1.61 | 1.90 | 2.22 | 2.58 | 2.97 |
| 60 | - | 0.73 | 0.93 | 1.13 | 1.35 | 1.60 | 1.88 | 2.19 | 2.53 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 116 | W |
| Power input | 4 584 | W |
| Current consumption | 7.05 | A |
| Mass flow | 313 | kg/h |
| C.O.P. | 2.21 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.7 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.3 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 84 | dB(A) |
| With acoustic hood | 77 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R407A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 513 | 3 813 | 5 445 | 7 456 | 9 896 | 12 811 | 16 250 | 20 258 | 24 886 |
| 35 | 2 126 | 3 342 | 4 866 | 6 748 | 9 034 | 11 772 | 15 010 | 18 796 | 23 177 |
| 40 | 1 753 | 2 883 | 4 300 | 6 049 | 8 181 | 10 741 | 13 778 | 17 339 | 21 472 |
| 45 | 1 397 | 2 441 | 3 748 | 5 365 | 7 340 | 9 721 | 12 555 | 15 891 | 19 775 |
| 50 | - | 2 020 | 3 215 | 4 699 | 6 516 | 8 717 | 11 347 | 14 456 | 18 090 |
| 55 | - | - | 2 706 | 4 054 | 5 713 | 7 732 | 10 158 | 13 038 | 16 420 |
| 60 | - | - | - | 3 435 | 4 935 | 6 771 | 8 990 | 11 641 | 14 771 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 883 | 2 256 | 2 609 | 2 936 | 3 230 | 3 486 | 3 698 | 3 859 | 3 965 |
| 35 | 1 848 | 2 256 | 2 646 | 3 013 | 3 352 | 3 655 | 3 917 | 4 133 | 4 295 |
| 40 | 1 794 | 2 239 | 2 670 | 3 082 | 3 467 | 3 821 | 4 138 | 4 411 | 4 634 |
| 45 | 1 720 | 2 206 | 2 682 | 3 141 | 3 577 | 3 986 | 4 359 | 4 693 | 4 980 |
| 50 | - | 2 158 | 2 681 | 3 191 | 3 682 | 4 147 | 4 582 | 4 980 | 5 335 |
| 55 | - | - | 2 667 | 3 232 | 3 780 | 4 307 | 4 806 | 5 272 | 5 698 |
| 60 | - | - | - | 3 263 | 3 873 | 4 465 | 5 032 | 5 568 | 6 069 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.87 | 5.17 | 5.48 | 5.80 | 6.11 | 6.39 | 6.62 | 6.79 | 6.87 |
| 35 | 4.87 | 5.17 | 5.50 | 5.85 | 6.19 | 6.51 | 6.80 | 7.03 | 7.19 |
| 40 | 4.86 | 5.18 | 5.53 | 5.91 | 6.29 | 6.67 | 7.01 | 7.31 | 7.54 |
| 45 | 4.84 | 5.18 | 5.56 | 5.98 | 6.41 | 6.83 | 7.24 | 7.61 | 7.93 |
| 50 | - | 5.16 | 5.58 | 6.03 | 6.52 | 7.01 | 7.49 | 7.94 | 8.35 |
| 55 | - | - | 5.57 | 6.08 | 6.62 | 7.18 | 7.74 | 8.28 | 8.78 |
| 60 | - | - | - | 6.11 | 6.72 | 7.35 | 7.99 | 8.62 | 9.22 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 60 | 89 | 125 | 168 | 218 | 278 | 347 | 426 | 517 |
| 35 | 53 | 82 | 117 | 160 | 210 | 268 | 336 | 415 | 505 |
| 40 | 47 | 75 | 110 | 151 | 200 | 258 | 325 | 403 | 492 |
| 45 | 40 | 68 | 101 | 142 | 191 | 248 | 314 | 390 | 478 |
| 50 | - | 60 | 93 | 133 | 180 | 236 | 302 | 377 | 464 |
| 55 | - | - | 84 | 123 | 170 | 225 | 289 | 364 | 449 |
| 60 | - | - | - | 114 | 159 | 213 | 276 | 350 | 434 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.34 | 1.69 | 2.09 | 2.54 | 3.06 | 3.67 | 4.39 | 5.25 | 6.28 |
| 35 | 1.15 | 1.48 | 1.84 | 2.24 | 2.70 | 3.22 | 3.83 | 4.55 | 5.40 |
| 40 | 0.98 | 1.29 | 1.61 | 1.96 | 2.36 | 2.81 | 3.33 | 3.93 | 4.63 |
| 45 | 0.81 | 1.11 | 1.40 | 1.71 | 2.05 | 2.44 | 2.88 | 3.39 | 3.97 |
| 50 | - | 0.94 | 1.20 | 1.47 | 1.77 | 2.10 | 2.48 | 2.90 | 3.39 |
| 55 | - | - | 1.01 | 1.25 | 1.51 | 1.80 | 2.11 | 2.47 | 2.88 |
| 60 | - | - | - | 1.05 | 1.27 | 1.52 | 1.79 | 2.09 | 2.43 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 340 | W |
| Power input | 3 577 | W |
| Current consumption | 6.41 | A |
| Mass flow | 191 | kg/h |
| C.O.P. | 2.05 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 25.8 | bar(g) |
| Minimum LP switch setting | 0.9 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, ARI rating conditions
R407A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 2 718 | 4 118 | 5 872 | 8 030 | 10 644 | 13 763 | 17 435 | 21 712 | 26 643 |
| 35 | 2 313 | 3 630 | 5 277 | 7 307 | 9 768 | 12 711 | 16 186 | 20 243 | 24 931 |
| 40 | 1 920 | 3 153 | 4 693 | 6 592 | 8 899 | 11 666 | 14 943 | 18 778 | 23 224 |
| 45 | 1 543 | 2 691 | 4 122 | 5 889 | 8 042 | 10 632 | 13 710 | 17 324 | 21 526 |
| 50 | - | 2 247 | 3 570 | 5 204 | 7 202 | 9 614 | 12 492 | 15 885 | 19 844 |
| 55 | - | - | 3 039 | 4 541 | 6 383 | 8 618 | 11 296 | 14 468 | 18 185 |
| 60 | - | - | - | 3 904 | 5 591 | 7 649 | 10 128 | 13 082 | 16 560 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 883 | 2 256 | 2 609 | 2 936 | 3 230 | 3 486 | 3 698 | 3 859 | 3 965 |
| 35 | 1 848 | 2 256 | 2 646 | 3 013 | 3 352 | 3 655 | 3 917 | 4 133 | 4 295 |
| 40 | 1 794 | 2 239 | 2 670 | 3 082 | 3 467 | 3 821 | 4 138 | 4 411 | 4 634 |
| 45 | 1 720 | 2 206 | 2 682 | 3 141 | 3 577 | 3 986 | 4 359 | 4 693 | 4 980 |
| 50 | - | 2 158 | 2 681 | 3 191 | 3 682 | 4 147 | 4 582 | 4 980 | 5 335 |
| 55 | - | - | 2 667 | 3 232 | 3 780 | 4 307 | 4 806 | 5 272 | 5 698 |
| 60 | - | - | - | 3 263 | 3 873 | 4 465 | 5 032 | 5 568 | 6 069 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.87 | 5.17 | 5.48 | 5.80 | 6.11 | 6.39 | 6.62 | 6.79 | 6.87 |
| 35 | 4.87 | 5.17 | 5.50 | 5.85 | 6.19 | 6.51 | 6.80 | 7.03 | 7.19 |
| 40 | 4.86 | 5.18 | 5.53 | 5.91 | 6.29 | 6.67 | 7.01 | 7.31 | 7.54 |
| 45 | 4.84 | 5.18 | 5.56 | 5.98 | 6.41 | 6.83 | 7.24 | 7.61 | 7.93 |
| 50 | - | 5.16 | 5.58 | 6.03 | 6.52 | 7.01 | 7.49 | 7.94 | 8.35 |
| 55 | - | - | 5.57 | 6.08 | 6.62 | 7.18 | 7.74 | 8.28 | 8.78 |
| 60 | - | - | - | 6.11 | 6.72 | 7.35 | 7.99 | 8.62 | 9.22 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 59 | 89 | 124 | 167 | 217 | 276 | 345 | 424 | 514 |
| 35 | 53 | 82 | 117 | 159 | 208 | 267 | 335 | 413 | 502 |
| 40 | 46 | 75 | 109 | 150 | 199 | 257 | 324 | 401 | 489 |
| 45 | 40 | 67 | 101 | 141 | 190 | 246 | 312 | 388 | 475 |
| 50 | - | 60 | 93 | 132 | 180 | 235 | 300 | 375 | 461 |
| 55 | - | - | 84 | 123 | 169 | 224 | 288 | 361 | 446 |
| 60 | - | - | - | 113 | 158 | 212 | 275 | 347 | 431 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.44 | 1.82 | 2.25 | 2.74 | 3.30 | 3.95 | 4.72 | 5.63 | 6.72 |
| 35 | 1.25 | 1.61 | 1.99 | 2.42 | 2.91 | 3.48 | 4.13 | 4.90 | 5.80 |
| 40 | 1.07 | 1.41 | 1.76 | 2.14 | 2.57 | 3.05 | 3.61 | 4.26 | 5.01 |
| 45 | 0.90 | 1.22 | 1.54 | 1.88 | 2.25 | 2.67 | 3.14 | 3.69 | 4.32 |
| 50 | - | 1.04 | 1.33 | 1.63 | 1.96 | 2.32 | 2.73 | 3.19 | 3.72 |
| 55 | - | - | 1.14 | 1.41 | 1.69 | 2.00 | 2.35 | 2.74 | 3.19 |
| 60 | - | - | - | 1.20 | 1.44 | 1.71 | 2.01 | 2.35 | 2.73 |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 042 | W |
| Power input | 3 577 | W |
| Current consumption | 6.41 | A |
| Mass flow | 190 | kg/h |
| C.O.P. | 2.25 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 25.8 | bar(g) |
| Minimum LP switch setting | 0.9 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R407F

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | - | 4 145 | 5 977 | 8 240 | 10 990 | 14 284 | 18 179 | 22 730 | 27 995 |
| 35 | - | 3 535 | 5 191 | 7 238 | 9 734 | 12 735 | 16 297 | 20 477 | 25 332 |
| 40 | - | 3 033 | 4 544 | 6 407 | 8 679 | 11 417 | 14 678 | 18 518 | 22 993 |
| 45 | - | 2 615 | 4 010 | 5 720 | 7 800 | 10 306 | 13 296 | 16 826 | 20 953 |
| 50 | - | - | 3 565 | 5 152 | 7 070 | 9 376 | 12 126 | 15 377 | 19 185 |
| 55 | - | - | - | 4 678 | 6 465 | 8 600 | 11 141 | 14 144 | 17 666 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 2 379 | 2 748 | 3 095 | 3 403 | 3 652 | 3 827 | 3 907 | 3 877 |
| 35 | - | 2 385 | 2 785 | 3 175 | 3 537 | 3 853 | 4 106 | 4 277 | 4 348 |
| 40 | - | 2 401 | 2 825 | 3 250 | 3 660 | 4 036 | 4 360 | 4 615 | 4 782 |
| 45 | - | 2 442 | 2 882 | 3 336 | 3 787 | 4 215 | 4 605 | 4 936 | 5 192 |
| 50 | - | - | 2 971 | 3 447 | 3 932 | 4 407 | 4 854 | 5 255 | 5 593 |
| 55 | - | - | - | 3 599 | 4 110 | 4 624 | 5 123 | 5 587 | 6 000 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 5.17 | 5.52 | 5.87 | 6.20 | 6.49 | 6.72 | 6.85 | 6.88 |
| 35 | - | 5.24 | 5.60 | 5.97 | 6.34 | 6.68 | 6.97 | 7.18 | 7.29 |
| 40 | - | 5.27 | 5.64 | 6.05 | 6.46 | 6.86 | 7.21 | 7.50 | 7.70 |
| 45 | - | 5.27 | 5.68 | 6.12 | 6.58 | 7.04 | 7.47 | 7.85 | 8.15 |
| 50 | - | - | 5.72 | 6.21 | 6.73 | 7.26 | 7.77 | 8.24 | 8.64 |
| 55 | - | - | - | 6.34 | 6.92 | 7.52 | 8.12 | 8.69 | 9.21 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 86 | 122 | 165 | 217 | 278 | 350 | 432 | 527 |
| 35 | - | 77 | 111 | 152 | 201 | 260 | 328 | 407 | 497 |
| 40 | - | 69 | 102 | 141 | 189 | 244 | 310 | 385 | 472 |
| 45 | - | 63 | 95 | 133 | 179 | 232 | 295 | 368 | 452 |
| 50 | - | - | 90 | 127 | 171 | 224 | 285 | 356 | 437 |
| 55 | - | - | - | 123 | 167 | 218 | 278 | 347 | 427 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.74 | 2.18 | 2.66 | 3.23 | 3.91 | 4.75 | 5.82 | 7.22 |
| 35 | - | 1.48 | 1.86 | 2.28 | 2.75 | 3.31 | 3.97 | 4.79 | 5.83 |
| 40 | - | 1.26 | 1.61 | 1.97 | 2.37 | 2.83 | 3.37 | 4.01 | 4.81 |
| 45 | - | 1.07 | 1.39 | 1.71 | 2.06 | 2.44 | 2.89 | 3.41 | 4.04 |
| 50 | - | - | 1.20 | 1.49 | 1.80 | 2.13 | 2.50 | 2.93 | 3.43 |
| 55 | - | - | - | 1.30 | 1.57 | 1.86 | 2.17 | 2.53 | 2.94 |
| 60 | - | - | - | - | - | - | - | - | - |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 800 | W |
| Power input | 3 787 | W |
| Current consumption | 6.58 | A |
| Mass flow | 179 | kg/h |
| C.O.P. | 2.06 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 24 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.26 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, ARI rating conditions
R407F

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
| | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | - | 4 443 | 6 400 | 8 814 | 11 744 | 15 249 | 19 390 | 24 224 | 29 810 |
| 35 | - | 3 806 | 5 583 | 7 776 | 10 447 | 13 653 | 17 455 | 21 912 | 27 082 |
| 40 | - | 3 284 | 4 913 | 6 919 | 9 361 | 12 301 | 15 797 | 19 909 | 24 695 |
| 45 | - | 2 849 | 4 363 | 6 214 | 8 463 | 11 168 | 14 391 | 18 190 | 22 626 |
| 50 | - | - | 3 909 | 5 639 | 7 726 | 10 231 | 13 214 | 16 735 | 20 854 |
| 55 | - | - | - | 5 168 | 7 129 | 9 468 | 12 246 | 15 524 | 19 362 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 2 379 | 2 748 | 3 095 | 3 403 | 3 652 | 3 827 | 3 907 | 3 877 |
| 35 | - | 2 385 | 2 785 | 3 175 | 3 537 | 3 853 | 4 106 | 4 277 | 4 348 |
| 40 | - | 2 401 | 2 825 | 3 250 | 3 660 | 4 036 | 4 360 | 4 615 | 4 782 |
| 45 | - | 2 442 | 2 882 | 3 336 | 3 787 | 4 215 | 4 605 | 4 936 | 5 192 |
| 50 | - | - | 2 971 | 3 447 | 3 932 | 4 407 | 4 854 | 5 255 | 5 593 |
| 55 | - | - | - | 3 599 | 4 110 | 4 624 | 5 123 | 5 587 | 6 000 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 5.17 | 5.52 | 5.87 | 6.20 | 6.49 | 6.72 | 6.85 | 6.88 |
| 35 | - | 5.24 | 5.60 | 5.97 | 6.34 | 6.68 | 6.97 | 7.18 | 7.29 |
| 40 | - | 5.27 | 5.64 | 6.05 | 6.46 | 6.86 | 7.21 | 7.50 | 7.70 |
| 45 | - | 5.27 | 5.68 | 6.12 | 6.58 | 7.04 | 7.47 | 7.85 | 8.15 |
| 50 | - | - | 5.72 | 6.21 | 6.73 | 7.26 | 7.77 | 8.24 | 8.64 |
| 55 | - | - | - | 6.34 | 6.92 | 7.52 | 8.12 | 8.69 | 9.21 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 85 | 121 | 164 | 216 | 277 | 348 | 430 | 524 |
| 35 | - | 76 | 110 | 151 | 200 | 258 | 326 | 404 | 494 |
| 40 | - | 69 | 101 | 141 | 187 | 243 | 308 | 383 | 469 |
| 45 | - | 63 | 94 | 132 | 178 | 231 | 293 | 366 | 449 |
| 50 | - | - | 89 | 126 | 170 | 222 | 283 | 353 | 434 |
| 55 | - | - | - | 123 | 166 | 217 | 276 | 345 | 424 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.87 | 2.33 | 2.85 | 3.45 | 4.18 | 5.07 | 6.20 | 7.69 |
| 35 | - | 1.60 | 2.00 | 2.45 | 2.95 | 3.54 | 4.25 | 5.12 | 6.23 |
| 40 | - | 1.37 | 1.74 | 2.13 | 2.56 | 3.05 | 3.62 | 4.31 | 5.16 |
| 45 | - | 1.17 | 1.51 | 1.86 | 2.23 | 2.65 | 3.13 | 3.69 | 4.36 |
| 50 | - | - | 1.32 | 1.64 | 1.96 | 2.32 | 2.72 | 3.18 | 3.73 |
| 55 | - | - | - | 1.44 | 1.73 | 2.05 | 2.39 | 2.78 | 3.23 |
| 60 | - | - | - | - | - | - | - | - | - |

Nominal performance at to = -10 °C, tc = 45 °C

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 463 | W |
| Power input | 3 787 | W |
| Current consumption | 6.58 | A |
| Mass flow | 178 | kg/h |
| C.O.P. | 2.23 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 24 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.26 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 974 | 2 818 | 5 298 | 7 054 | 9 233 | 11 897 | 15 106 | 18 919 | 23 398 |
| 40 | 1 670 | 2 452 | 4 750 | 6 387 | 8 430 | 10 939 | 13 974 | 17 595 | 21 864 |
| 45 | 1 395 | 2 114 | 4 231 | 5 750 | 7 657 | 10 011 | 12 873 | 16 304 | 20 363 |
| 50 | 1 149 | 1 805 | 3 743 | 5 144 | 6 916 | 9 116 | 11 806 | 15 045 | 18 895 |
| 55 | - | - | 3 285 | 4 571 | 6 206 | 8 253 | 10 771 | 13 821 | 17 462 |
| 60 | - | - | - | 4 029 | 5 530 | 7 424 | 9 771 | 12 631 | 16 064 |
| 65 | - | - | - | - | 4 888 | 6 629 | 8 805 | 11 476 | 14 702 |
| 75 | - | - | - | - | - | - | 6 981 | 9 275 | 12 088 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 429 | 1 703 | 2 193 | 2 402 | 2 583 | 2 731 | 2 844 | 2 918 | 2 949 |
| 40 | 1 377 | 1 675 | 2 217 | 2 455 | 2 666 | 2 847 | 2 993 | 3 102 | 3 170 |
| 45 | 1 330 | 1 655 | 2 258 | 2 528 | 2 773 | 2 990 | 3 174 | 3 322 | 3 431 |
| 50 | 1 276 | 1 633 | 2 303 | 2 610 | 2 893 | 3 149 | 3 374 | 3 566 | 3 720 |
| 55 | - | - | 2 340 | 2 687 | 3 013 | 3 312 | 3 583 | 3 822 | 4 025 |
| 60 | - | - | - | 2 750 | 3 121 | 3 469 | 3 789 | 4 078 | 4 334 |
| 65 | - | - | - | - | 3 207 | 3 605 | 3 979 | 4 323 | 4 635 |
| 75 | - | - | - | - | - | - | 4 266 | 4 731 | 5 167 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.42 | 5.38 | 5.48 | 5.59 | 5.72 | 5.85 | 5.98 | 6.08 | 6.14 |
| 40 | 5.40 | 5.37 | 5.50 | 5.62 | 5.77 | 5.92 | 6.07 | 6.19 | 6.27 |
| 45 | 5.37 | 5.37 | 5.54 | 5.69 | 5.86 | 6.04 | 6.21 | 6.35 | 6.46 |
| 50 | 5.33 | 5.35 | 5.59 | 5.77 | 5.97 | 6.18 | 6.39 | 6.57 | 6.72 |
| 55 | - | - | 5.62 | 5.84 | 6.09 | 6.35 | 6.59 | 6.82 | 7.01 |
| 60 | - | - | - | 5.90 | 6.20 | 6.51 | 6.81 | 7.09 | 7.33 |
| 65 | - | - | - | - | 6.29 | 6.65 | 7.02 | 7.36 | 7.66 |
| 75 | - | - | - | - | - | - | 7.35 | 7.84 | 8.30 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 50 | 70 | 126 | 164 | 210 | 265 | 330 | 407 | 496 |
| 40 | 45 | 64 | 119 | 156 | 201 | 256 | 320 | 396 | 485 |
| 45 | 40 | 59 | 112 | 148 | 193 | 246 | 310 | 386 | 474 |
| 50 | 35 | 53 | 105 | 140 | 184 | 237 | 300 | 375 | 463 |
| 55 | - | - | 98 | 132 | 175 | 228 | 290 | 364 | 451 |
| 60 | - | - | - | 125 | 167 | 219 | 281 | 354 | 440 |
| 65 | - | - | - | - | 159 | 210 | 271 | 344 | 430 |
| 75 | - | - | - | - | - | - | 254 | 325 | 409 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.38 | 1.66 | 2.42 | 2.94 | 3.57 | 4.36 | 5.31 | 6.48 | 7.93 |
| 40 | 1.21 | 1.46 | 2.14 | 2.60 | 3.16 | 3.84 | 4.67 | 5.67 | 6.90 |
| 45 | 1.05 | 1.28 | 1.87 | 2.27 | 2.76 | 3.35 | 4.06 | 4.91 | 5.93 |
| 50 | 0.90 | 1.11 | 1.63 | 1.97 | 2.39 | 2.89 | 3.50 | 4.22 | 5.08 |
| 55 | - | - | 1.40 | 1.70 | 2.06 | 2.49 | 3.01 | 3.62 | 4.34 |
| 60 | - | - | - | 1.47 | 1.77 | 2.14 | 2.58 | 3.10 | 3.71 |
| 65 | - | - | - | - | 1.52 | 1.84 | 2.21 | 2.65 | 3.17 |
| 75 | - | - | - | - | - | - | 1.64 | 1.96 | 2.34 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 116 | W |
| Power input | 3 149 | W |
| Current consumption | 6.18 | A |
| Mass flow | 237 | kg/h |
| C.O.P. | 2.89 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 60 Hz, ARI rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 2 146 | 3 058 | 5 729 | 7 614 | 9 952 | 12 804 | 16 234 | 20 304 | 25 078 |
| 40 | 1 827 | 2 675 | 5 162 | 6 929 | 9 130 | 11 828 | 15 086 | 18 967 | 23 534 |
| 45 | 1 536 | 2 321 | 4 626 | 6 275 | 8 339 | 10 883 | 13 970 | 17 663 | 22 025 |
| 50 | - | 1 997 | 4 121 | 5 651 | 7 580 | 9 971 | 12 887 | 16 393 | 20 551 |
| 55 | - | - | 3 647 | 5 060 | 6 853 | 9 092 | 11 839 | 15 159 | 19 114 |
| 60 | - | - | - | 4 501 | 6 161 | 8 248 | 10 828 | 13 963 | 17 717 |
| 65 | - | - | - | - | - | 7 441 | 9 854 | 12 807 | 16 363 |
| 75 | - | - | - | - | - | - | 8 033 | 10 630 | 13 802 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 429 | 1 703 | 2 193 | 2 402 | 2 583 | 2 731 | 2 844 | 2 918 | 2 949 |
| 40 | 1 377 | 1 675 | 2 217 | 2 455 | 2 666 | 2 847 | 2 993 | 3 102 | 3 170 |
| 45 | 1 330 | 1 655 | 2 258 | 2 528 | 2 773 | 2 990 | 3 174 | 3 322 | 3 431 |
| 50 | - | 1 633 | 2 303 | 2 610 | 2 893 | 3 149 | 3 374 | 3 566 | 3 720 |
| 55 | - | - | 2 340 | 2 687 | 3 013 | 3 312 | 3 583 | 3 822 | 4 025 |
| 60 | - | - | - | 2 750 | 3 121 | 3 469 | 3 789 | 4 078 | 4 334 |
| 65 | - | - | - | - | - | 3 605 | 3 979 | 4 323 | 4 635 |
| 75 | - | - | - | - | - | - | 4 266 | 4 731 | 5 167 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.42 | 5.38 | 5.48 | 5.59 | 5.72 | 5.85 | 5.98 | 6.08 | 6.14 |
| 40 | 5.40 | 5.37 | 5.50 | 5.62 | 5.77 | 5.92 | 6.07 | 6.19 | 6.27 |
| 45 | 5.37 | 5.37 | 5.54 | 5.69 | 5.86 | 6.04 | 6.21 | 6.35 | 6.46 |
| 50 | - | 5.35 | 5.59 | 5.77 | 5.97 | 6.18 | 6.39 | 6.57 | 6.72 |
| 55 | - | - | 5.62 | 5.84 | 6.09 | 6.35 | 6.59 | 6.82 | 7.01 |
| 60 | - | - | - | 5.90 | 6.20 | 6.51 | 6.81 | 7.09 | 7.33 |
| 65 | - | - | - | - | - | 6.65 | 7.02 | 7.36 | 7.66 |
| 75 | - | - | - | - | - | - | 7.35 | 7.84 | 8.30 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 49 | 70 | 126 | 163 | 209 | 264 | 329 | 405 | 494 |
| 40 | 44 | 64 | 118 | 155 | 200 | 254 | 319 | 394 | 482 |
| 45 | 40 | 58 | 111 | 147 | 192 | 245 | 309 | 384 | 471 |
| 50 | - | 53 | 104 | 139 | 183 | 236 | 299 | 373 | 460 |
| 55 | - | - | 97 | 132 | 174 | 226 | 289 | 362 | 449 |
| 60 | - | - | - | 124 | 166 | 217 | 279 | 352 | 438 |
| 65 | - | - | - | - | - | 209 | 270 | 342 | 427 |
| 75 | - | - | - | - | - | - | 252 | 323 | 407 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.50 | 1.80 | 2.61 | 3.17 | 3.85 | 4.69 | 5.71 | 6.96 | 8.50 |
| 40 | 1.33 | 1.60 | 2.33 | 2.82 | 3.42 | 4.16 | 5.04 | 6.11 | 7.42 |
| 45 | 1.15 | 1.40 | 2.05 | 2.48 | 3.01 | 3.64 | 4.40 | 5.32 | 6.42 |
| 50 | - | 1.22 | 1.79 | 2.17 | 2.62 | 3.17 | 3.82 | 4.60 | 5.52 |
| 55 | - | - | 1.56 | 1.88 | 2.27 | 2.74 | 3.30 | 3.97 | 4.75 |
| 60 | - | - | - | 1.64 | 1.97 | 2.38 | 2.86 | 3.42 | 4.09 |
| 65 | - | - | - | - | - | 2.06 | 2.48 | 2.96 | 3.53 |
| 75 | - | - | - | - | - | - | 1.88 | 2.25 | 2.67 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 347 | W |
| Power input | 3 413 | W |
| Current consumption | 6.44 | A |
| Mass flow | 254 | kg/h |
| C.O.P. | 3.03 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.2 | bar(g) |
| Minimum LP switch setting | 0.1 | bar(g) |
| LP pump down setting | 0.4 | 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

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 847 | 9 024 | 11 655 | 14 801 | 18 524 | 22 886 | 27 950 | - | - |
| 40 | 6 200 | 8 245 | 10 713 | 13 663 | 17 158 | 21 260 | 26 031 | - | - |
| 45 | 5 557 | 7 470 | 9 772 | 12 525 | 15 791 | 19 631 | 24 106 | - | - |
| 50 | - | 6 700 | 8 836 | 11 390 | 14 425 | 18 001 | 22 179 | - | - |
| 55 | - | - | 7 908 | 10 262 | 13 064 | 16 373 | 20 252 | - | - |
| 60 | - | - | - | 9 143 | 11 709 | 14 750 | 18 327 | - | - |
| 65 | - | - | - | 8 035 | 10 363 | 13 132 | 16 403 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 072 | 3 388 | 3 655 | 3 886 | 4 093 | 4 291 | 4 492 | - | - |
| 40 | 3 174 | 3 551 | 3 871 | 4 147 | 4 393 | 4 622 | 4 846 | - | - |
| 45 | 3 239 | 3 685 | 4 068 | 4 399 | 4 692 | 4 961 | 5 218 | - | - |
| 50 | - | 3 786 | 4 240 | 4 635 | 4 984 | 5 302 | 5 600 | - | - |
| 55 | - | - | 4 382 | 4 849 | 5 264 | 5 639 | 5 988 | - | - |
| 60 | - | - | - | 5 037 | 5 526 | 5 968 | 6 376 | - | - |
| 65 | - | - | - | 5 192 | 5 764 | 6 281 | 6 758 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.37 | 5.69 | 5.96 | 6.21 | 6.43 | 6.63 | 6.81 | - | - |
| 40 | 5.48 | 5.87 | 6.21 | 6.52 | 6.80 | 7.06 | 7.30 | - | - |
| 45 | 5.56 | 6.02 | 6.44 | 6.82 | 7.17 | 7.49 | 7.79 | - | - |
| 50 | - | 6.14 | 6.64 | 7.10 | 7.52 | 7.92 | 8.29 | - | - |
| 55 | - | - | 6.81 | 7.35 | 7.86 | 8.33 | 8.77 | - | - |
| 60 | - | - | - | 7.57 | 8.16 | 8.72 | 9.24 | - | - |
| 65 | - | - | - | 7.75 | 8.44 | 9.08 | 9.69 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 149 | 193 | 245 | 306 | 377 | 459 | 554 | - | - |
| 40 | 141 | 185 | 236 | 296 | 366 | 447 | 540 | - | - |
| 45 | 134 | 177 | 227 | 286 | 355 | 434 | 525 | - | - |
| 50 | - | 168 | 217 | 275 | 342 | 420 | 510 | - | - |
| 55 | - | - | 207 | 264 | 330 | 406 | 494 | - | - |
| 60 | - | - | - | 252 | 316 | 391 | 477 | - | - |
| 65 | - | - | - | 239 | 302 | 375 | 459 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.23 | 2.66 | 3.19 | 3.81 | 4.53 | 5.33 | 6.22 | - | - |
| 40 | 1.95 | 2.32 | 2.77 | 3.29 | 3.91 | 4.60 | 5.37 | - | - |
| 45 | 1.72 | 2.03 | 2.40 | 2.85 | 3.37 | 3.96 | 4.62 | - | - |
| 50 | - | 1.77 | 2.08 | 2.46 | 2.89 | 3.40 | 3.96 | - | - |
| 55 | - | - | 1.80 | 2.12 | 2.48 | 2.90 | 3.38 | - | - |
| 60 | - | - | - | 1.82 | 2.12 | 2.47 | 2.87 | - | - |
| 65 | - | - | - | 1.55 | 1.80 | 2.09 | 2.43 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 14 425 | W |
| Power input | 4 984 | W |
| Current consumption | 7.52 | A |
| Mass flow | 342 | kg/h |
| C.O.P. | 2.89 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 79 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, ARI rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 7 370 | 9 701 | 12 515 | 15 875 | 19 846 | 24 494 | 29 884 | - | - |
| 40 | 6 710 | 8 911 | 11 562 | 14 728 | 18 474 | 22 864 | 27 963 | - | - |
| 45 | 6 053 | 8 123 | 10 611 | 13 581 | 17 099 | 21 230 | 26 037 | - | - |
| 50 | - | 7 340 | 9 663 | 12 436 | 15 725 | 19 595 | 24 110 | - | - |
| 55 | - | - | 8 722 | 11 298 | 14 357 | 17 965 | 22 186 | - | - |
| 60 | - | - | - | 10 169 | 12 997 | 16 341 | 20 267 | - | - |
| 65 | - | - | - | 9 054 | 11 649 | 14 729 | 18 358 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 072 | 3 388 | 3 655 | 3 886 | 4 093 | 4 291 | 4 492 | - | - |
| 40 | 3 174 | 3 551 | 3 871 | 4 147 | 4 393 | 4 622 | 4 846 | - | - |
| 45 | 3 239 | 3 685 | 4 068 | 4 399 | 4 692 | 4 961 | 5 218 | - | - |
| 50 | - | 3 786 | 4 240 | 4 635 | 4 984 | 5 302 | 5 600 | - | - |
| 55 | - | - | 4 382 | 4 849 | 5 264 | 5 639 | 5 988 | - | - |
| 60 | - | - | - | 5 037 | 5 526 | 5 968 | 6 376 | - | - |
| 65 | - | - | - | 5 192 | 5 764 | 6 281 | 6 758 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 5.37 | 5.69 | 5.96 | 6.21 | 6.43 | 6.63 | 6.81 | - | - |
| 40 | 5.48 | 5.87 | 6.21 | 6.52 | 6.80 | 7.06 | 7.30 | - | - |
| 45 | 5.56 | 6.02 | 6.44 | 6.82 | 7.17 | 7.49 | 7.79 | - | - |
| 50 | - | 6.14 | 6.64 | 7.10 | 7.52 | 7.92 | 8.29 | - | - |
| 55 | - | - | 6.81 | 7.35 | 7.86 | 8.33 | 8.77 | - | - |
| 60 | - | - | - | 7.57 | 8.16 | 8.72 | 9.24 | - | - |
| 65 | - | - | - | 7.75 | 8.44 | 9.08 | 9.69 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 148 | 192 | 243 | 304 | 375 | 457 | 550 | - | - |
| 40 | 141 | 184 | 235 | 294 | 364 | 444 | 536 | - | - |
| 45 | 133 | 176 | 226 | 284 | 352 | 431 | 522 | - | - |
| 50 | - | 167 | 216 | 273 | 340 | 418 | 507 | - | - |
| 55 | - | - | 206 | 262 | 328 | 403 | 491 | - | - |
| 60 | - | - | - | 250 | 314 | 388 | 474 | - | - |
| 65 | - | - | - | 238 | 300 | 373 | 456 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.40 | 2.86 | 3.42 | 4.09 | 4.85 | 5.71 | 6.65 | - | - |
| 40 | 2.11 | 2.51 | 2.99 | 3.55 | 4.20 | 4.95 | 5.77 | - | - |
| 45 | 1.87 | 2.20 | 2.61 | 3.09 | 3.64 | 4.28 | 4.99 | - | - |
| 50 | - | 1.94 | 2.28 | 2.68 | 3.16 | 3.70 | 4.31 | - | - |
| 55 | - | - | 1.99 | 2.33 | 2.73 | 3.19 | 3.71 | - | - |
| 60 | - | - | - | 2.02 | 2.35 | 2.74 | 3.18 | - | - |
| 65 | - | - | - | 1.74 | 2.02 | 2.34 | 2.72 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 16 050 | W |
| Power input | 5 397 | W |
| Current consumption | 8.03 | A |
| Mass flow | 361 | kg/h |
| C.O.P. | 2.97 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.4 | bar(g) |
| Minimum LP switch setting | 1.4 | bar(g) |
| LP pump down setting | 1.7 | bar(g) |

Sound power data

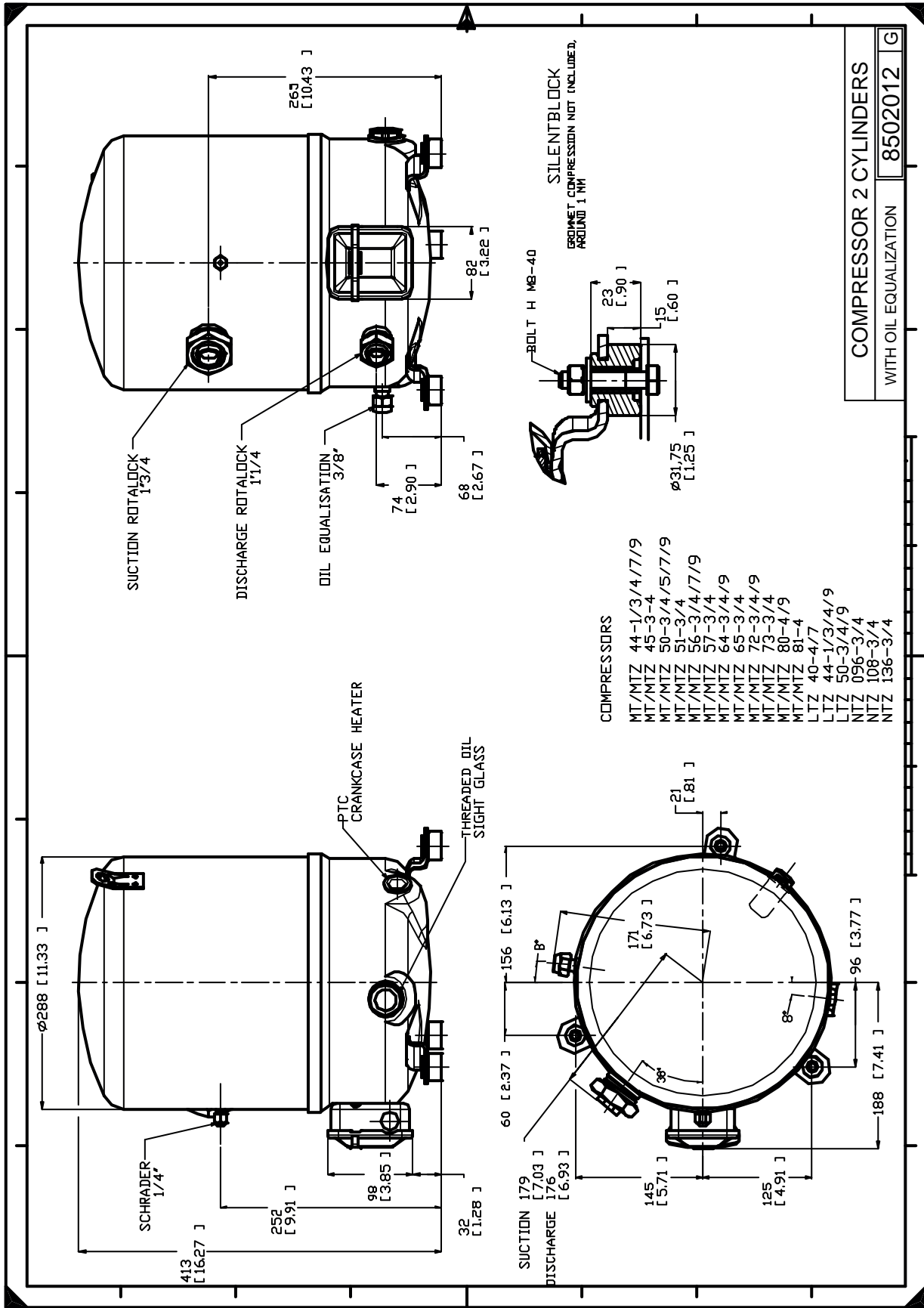
| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 79 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900



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