## General Characteristics

| | | |
|---|---|---|
| Model number (on compressor nameplate) | | **VZH044CGANA** |
| Code number for Singlepack* | | 120G0059 |
| Code number for Industrial pack** | | 120G0140 |
| Drawing number | | 0VG8213b |
| Suction and discharge connections | | Brazed |
| Suction connection | | 3/4 " ODF |
| Discharge connection | | 1/2 " ODF |
| Oil sight glass | | Threaded |
| Oil equalisation connection | | None |
| Oil drain connection | | 1/4" flare |
| LP gauge port | | None |
| IPR valve | | Yes |
| Swept volume | 44.5 cm3/rev | |
| Net weight | 27 kg | |
| Oil charge | 1.3 litre, PVE - FVC32D | |
| Maximum number of starts per hour | 12 | |
| Refrigerant charge limit | 3.6 kg | |
| Approved refrigerants | R410A | |

## Electrical Characteristics

| | |
|---|---|
| Nominal voltage | Supply voltage 380-480V/3/50-60Hz |
| Voltage range | 342-528 V supply to frequency converter |
| Winding resistance (between phases) +/- 7% at 25ºC | 0.71 Ω |
| Rated Load Amps (RLA) | 15.5 A |
| Motor protection | Motor protection by frequency converter |

## Recommended Installation torques

| | |
|---|---|
| Oil sight glass | 52.5 Nm |
| Power connections / Earth connection | 0 Nm / 2 Nm |
| Mounting bolts | 11 Nm |

## Parts shipped with compressor

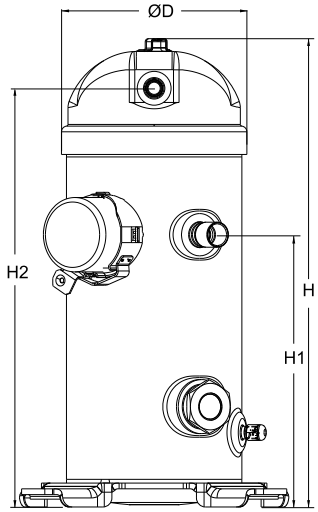
| |
|---|
| Mounting kit with grommets and sleeves |
| Initial oil charge |
| Installation instructions |

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

*Singlepack: Compressor in cardboard box

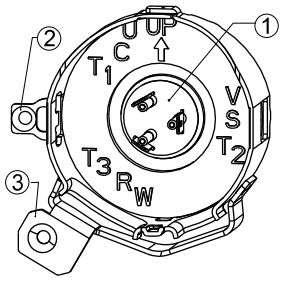
**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

## Dimensions




D=164.5 mm
H=415.4 mm
H1=241.5 mm
H2=371.4 mm
H3=- mm

## Terminal box




IP22

1: Power connections
2: Earth connection
3: EMC braket with shielded cable

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| Rotolock accessories, suction side | Code no. |
|---|---|
| Rotolock adapter (1-1/4" Rotolock, 3/4" ODF) | 120Z0366 |

| Rotolock accessories, discharge side | Code no. |
|---|---|
| Rotolock adapter (1" Rotolock, 1/2" ODF) | 120Z0365 |

| Rotolock accessories, sets | Code no. |
|---|---|
| Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF) | 120Z0126 |

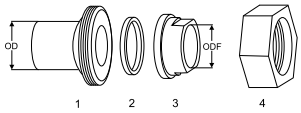
| Oil / lubricants | Code no. |
|---|---|

| Crankcase heaters | Code no. |
|---|---|
| Belt type crankcase heater, 70 W, 240 V, CE mark, UL | 120Z5040 |
| Belt type crankcase heater, 70 W, 400/460V, CE mark, UL | 120Z5041 |

| Miscellaneous accessories | Code no. |
|---|---|
| Acoustic hood | 120Z5043 |

| Spare parts | Code no. |
|---|---|
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 grounding screws | 120Z0622 |
| Terminal box cover | 120Z5015 |

**Solder sleeve adapter set**




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

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## Performance data at 15 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | - | 2 164 | 2 634 | 3 174 | 3 790 | - | - | - | - |
| 10 | - | 2 103 | 2 570 | 3 106 | 3 715 | 4 405 | - | - | - |
| 15 | - | 2 021 | 2 484 | 3 013 | 3 613 | 4 291 | 5 052 | - | - |
| 20 | - | 1 921 | 2 377 | 2 896 | 3 485 | 4 149 | 4 895 | 5 727 | - |
| 25 | - | 1 803 | 2 250 | 2 758 | 3 333 | 3 981 | 4 709 | 5 520 | 6 423 |
| 30 | - | - | 2 105 | 2 600 | 3 159 | 3 789 | 4 495 | 5 284 | 6 161 |
| 35 | - | - | - | 2 423 | 2 964 | 3 573 | 4 256 | 5 020 | 5 869 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Power input in W** | | | | | | | | | |
| 5 | - | 482 | 443 | 400 | 358 | - | - | - | - |
| 10 | - | 545 | 509 | 465 | 419 | 375 | - | - | - |
| 15 | - | 611 | 580 | 539 | 491 | 442 | 395 | - | - |
| 20 | - | 680 | 657 | 620 | 574 | 522 | 469 | 419 | - |
| 25 | - | 752 | 739 | 709 | 666 | 614 | 557 | 500 | 447 |
| 30 | - | - | 827 | 806 | 768 | 718 | 660 | 599 | 538 |
| 35 | - | - | - | 910 | 880 | 835 | 778 | 714 | 647 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Current consumption in A** | | | | | | | | | |
| 5 | - | 1.11 | 1.06 | 0.99 | 0.87 | - | - | - | - |
| 10 | - | 1.21 | 1.17 | 1.11 | 1.01 | 0.86 | - | - | - |
| 15 | - | 1.31 | 1.29 | 1.24 | 1.15 | 1.02 | 0.82 | - | - |
| 20 | - | 1.42 | 1.41 | 1.37 | 1.30 | 1.19 | 1.01 | 0.76 | - |
| 25 | - | 1.54 | 1.54 | 1.51 | 1.46 | 1.36 | 1.20 | 0.98 | 0.67 |
| 30 | - | - | 1.68 | 1.67 | 1.63 | 1.54 | 1.41 | 1.20 | 0.92 |
| 35 | - | - | - | 1.83 | 1.81 | 1.74 | 1.62 | 1.44 | 1.17 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | - | 36 | 43 | 51 | 61 | - | - | - | - |
| 10 | - | 36 | 44 | 52 | 62 | 73 | - | - | - |
| 15 | - | 36 | 44 | 52 | 62 | 73 | 86 | - | - |
| 20 | - | 36 | 43 | 52 | 62 | 74 | 86 | 101 | - |
| 25 | - | 35 | 43 | 52 | 62 | 74 | 87 | 101 | 117 |
| 30 | - | - | 42 | 51 | 62 | 73 | 87 | 101 | 117 |
| 35 | - | - | - | 50 | 61 | 73 | 86 | 101 | 117 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | - | 4.49 | 5.95 | 7.94 | 10.60 | - | - | - | - |
| 10 | - | 3.86 | 5.05 | 6.67 | 8.86 | 11.75 | - | - | - |
| 15 | - | 3.31 | 4.28 | 5.59 | 7.35 | 9.71 | 12.79 | - | - |
| 20 | - | 2.83 | 3.62 | 4.67 | 6.08 | 7.95 | 10.44 | 13.67 | - |
| 25 | - | 2.40 | 3.04 | 3.89 | 5.01 | 6.49 | 8.45 | 11.04 | 14.36 |
| 30 | - | - | 2.55 | 3.23 | 4.11 | 5.28 | 6.81 | 8.83 | 11.46 |
| 35 | - | - | - | 2.66 | 3.37 | 4.28 | 5.47 | 7.03 | 9.07 |
| 40 | - | - | - | - | - | - | - | - | - |

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

| | | |
|---|---|---|
| Cooling capacity | - | W |
| Power input | - | W |
| Current consumption | - | A |
| Mass flow | - | kg/h |
| C.O.P. | - | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 15 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | - | 2 285 | 2 780 | 3 348 | 3 995 | - | - | - | - |
| 10 | - | 2 227 | 2 721 | 3 286 | 3 928 | 4 654 | - | - | - |
| 15 | - | 2 148 | 2 639 | 3 198 | 3 833 | 4 549 | 5 352 | - | - |
| 20 | - | 2 050 | 2 534 | 3 086 | 3 711 | 4 415 | 5 205 | 6 086 | - |
| 25 | - | 1 933 | 2 410 | 2 952 | 3 565 | 4 255 | 5 028 | 5 891 | 6 849 |
| 30 | - | - | 2 267 | 2 796 | 3 395 | 4 069 | 4 824 | 5 666 | 6 602 |
| 35 | - | - | - | 2 622 | 3 204 | 3 859 | 4 594 | 5 413 | 6 325 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Power input in W** | | | | | | | | | |
| 5 | - | 482 | 443 | 400 | 358 | - | - | - | - |
| 10 | - | 545 | 509 | 465 | 419 | 375 | - | - | - |
| 15 | - | 611 | 580 | 539 | 491 | 442 | 395 | - | - |
| 20 | - | 680 | 657 | 620 | 574 | 522 | 469 | 419 | - |
| 25 | - | 752 | 739 | 709 | 666 | 614 | 557 | 500 | 447 |
| 30 | - | - | 827 | 806 | 768 | 718 | 660 | 599 | 538 |
| 35 | - | - | - | 910 | 880 | 835 | 778 | 714 | 647 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Current consumption in A** | | | | | | | | | |
| 5 | - | 1.11 | 1.06 | 0.99 | 0.87 | - | - | - | - |
| 10 | - | 1.21 | 1.17 | 1.11 | 1.01 | 0.86 | - | - | - |
| 15 | - | 1.31 | 1.29 | 1.24 | 1.15 | 1.02 | 0.82 | - | - |
| 20 | - | 1.42 | 1.41 | 1.37 | 1.30 | 1.19 | 1.01 | 0.76 | - |
| 25 | - | 1.54 | 1.54 | 1.51 | 1.46 | 1.36 | 1.20 | 0.98 | 0.67 |
| 30 | - | - | 1.68 | 1.67 | 1.63 | 1.54 | 1.41 | 1.20 | 0.92 |
| 35 | - | - | - | 1.83 | 1.81 | 1.74 | 1.62 | 1.44 | 1.17 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | - | 36 | 43 | 51 | 60 | - | - | - | - |
| 10 | - | 36 | 43 | 52 | 61 | 72 | - | - | - |
| 15 | - | 36 | 43 | 52 | 62 | 73 | 85 | - | - |
| 20 | - | 35 | 43 | 52 | 62 | 73 | 86 | 100 | - |
| 25 | - | 35 | 43 | 52 | 62 | 73 | 86 | 100 | 116 |
| 30 | - | - | 42 | 51 | 61 | 73 | 86 | 100 | 116 |
| 35 | - | - | - | 50 | 61 | 72 | 85 | 100 | 116 |
| 40 | - | - | - | - | - | - | - | - | - |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | - | 4.74 | 6.28 | 8.37 | 11.17 | - | - | - | - |
| 10 | - | 4.09 | 5.35 | 7.06 | 9.37 | 12.42 | - | - | - |
| 15 | - | 3.52 | 4.55 | 5.94 | 7.80 | 10.29 | 13.55 | - | - |
| 20 | - | 3.01 | 3.86 | 4.98 | 6.47 | 8.46 | 11.11 | 14.53 | - |
| 25 | - | 2.57 | 3.26 | 4.16 | 5.35 | 6.93 | 9.03 | 11.78 | 15.31 |
| 30 | - | - | 2.74 | 3.47 | 4.42 | 5.67 | 7.31 | 9.47 | 12.28 |
| 35 | - | - | - | 2.88 | 3.64 | 4.62 | 5.90 | 7.58 | 9.77 |
| 40 | - | - | - | - | - | - | - | - | - |

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

| | | |
|---|---|---|
| Cooling capacity | - | W |
| Power input | - | W |
| Current consumption | - | A |
| Mass flow | - | kg/h |
| C.O.P. | - | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 20 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | - | 2 999 | 3 662 | 4 428 | 5 307 | - | - | - | - |
| 10 | - | 2 894 | 3 545 | 4 296 | 5 155 | 6 130 | - | - | - |
| 15 | - | 2 771 | 3 408 | 4 141 | 4 978 | 5 928 | 7 001 | - | - |
| 20 | - | 2 632 | 3 252 | 3 965 | 4 778 | 5 701 | 6 742 | 7 911 | - |
| 30 | - | - | 2 890 | 3 555 | 4 314 | 5 175 | 6 147 | 7 238 | 8 457 |
| 35 | - | - | - | 3 324 | 4 052 | 4 878 | 5 812 | 6 861 | 8 034 |
| 40 | - | - | - | - | 3 772 | 4 561 | 5 454 | 6 458 | 7 582 |
| 50 | - | - | - | - | - | - | 4 669 | 5 575 | 6 592 |
| **Power input in W** | | | | | | | | | |
| 5 | - | 561 | 503 | 428 | 333 | - | - | - | - |
| 10 | - | 645 | 600 | 536 | 452 | 350 | - | - | - |
| 15 | - | 729 | 697 | 644 | 572 | 480 | 368 | - | - |
| 20 | - | 814 | 794 | 754 | 693 | 612 | 511 | 390 | - |
| 30 | - | - | 999 | 984 | 947 | 890 | 812 | 712 | 591 |
| 35 | - | - | - | 1 107 | 1 084 | 1 039 | 972 | 884 | 773 |
| 40 | - | - | - | - | 1 228 | 1 196 | 1 141 | 1 065 | 966 |
| 50 | - | - | - | - | - | - | 1 512 | 1 460 | 1 385 |
| **Current consumption in A** | | | | | | | | | |
| 5 | - | 1.23 | 1.16 | 1.06 | 0.90 | - | - | - | - |
| 10 | - | 1.36 | 1.31 | 1.23 | 1.10 | 0.91 | - | - | - |
| 15 | - | 1.48 | 1.45 | 1.39 | 1.28 | 1.12 | 0.89 | - | - |
| 20 | - | 1.61 | 1.59 | 1.55 | 1.47 | 1.33 | 1.13 | 0.84 | - |
| 30 | - | - | 1.89 | 1.88 | 1.84 | 1.75 | 1.61 | 1.38 | 1.07 |
| 35 | - | - | - | 2.06 | 2.04 | 1.97 | 1.85 | 1.66 | 1.38 |
| 40 | - | - | - | - | 2.25 | 2.20 | 2.11 | 1.95 | 1.70 |
| 50 | - | - | - | - | - | - | 2.67 | 2.57 | 2.38 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | - | 50 | 60 | 72 | 85 | - | - | - | - |
| 10 | - | 50 | 60 | 72 | 86 | 101 | - | - | - |
| 15 | - | 49 | 60 | 72 | 86 | 101 | 119 | - | - |
| 20 | - | 49 | 60 | 72 | 86 | 101 | 119 | 139 | - |
| 30 | - | - | 58 | 70 | 84 | 100 | 118 | 138 | 161 |
| 35 | - | - | - | 69 | 83 | 99 | 117 | 138 | 160 |
| 40 | - | - | - | - | 82 | 98 | 116 | 136 | 159 |
| 50 | - | - | - | - | - | - | 112 | 133 | 156 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | - | 5.35 | 7.27 | 10.35 | 15.92 | - | - | - | - |
| 10 | - | 4.48 | 5.91 | 8.02 | 11.39 | 17.54 | - | - | - |
| 15 | - | 3.80 | 4.89 | 6.43 | 8.71 | 12.36 | 19.02 | - | - |
| 20 | - | 3.23 | 4.10 | 5.26 | 6.89 | 9.31 | 13.19 | 20.29 | - |
| 30 | - | - | 2.89 | 3.61 | 4.55 | 5.81 | 7.57 | 10.17 | 14.31 |
| 35 | - | - | - | 3.00 | 3.74 | 4.70 | 5.98 | 7.76 | 10.39 |
| 40 | - | - | - | - | 3.07 | 3.81 | 4.78 | 6.07 | 7.85 |
| 50 | - | - | - | - | - | - | 3.09 | 3.82 | 4.76 |

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

| | | |
|---|---|---|
| Cooling capacity | - | W |
| Power input | - | W |
| Current consumption | - | A |
| Mass flow | - | kg/h |
| C.O.P. | - | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 20 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | - | 3 166 | 3 864 | 4 670 | 5 593 | - | - | - | - |
| 10 | - | 3 065 | 3 752 | 4 544 | 5 449 | 6 477 | - | - | - |
| 15 | - | 2 945 | 3 620 | 4 395 | 5 280 | 6 284 | 7 417 | - | - |
| 20 | - | 2 809 | 3 468 | 4 224 | 5 087 | 6 066 | 7 169 | 8 406 | - |
| 30 | - | - | 3 112 | 3 824 | 4 636 | 5 557 | 6 596 | 7 761 | 9 062 |
| 35 | - | - | - | 3 597 | 4 381 | 5 269 | 6 272 | 7 399 | 8 657 |
| 40 | - | - | - | - | 4 107 | 4 961 | 5 926 | 7 011 | 8 225 |
| 50 | - | - | - | - | - | - | 5 172 | 6 168 | 7 286 |
| **Power input in W** | | | | | | | | | |
| 5 | - | 561 | 503 | 428 | 333 | - | - | - | - |
| 10 | - | 645 | 600 | 536 | 452 | 350 | - | - | - |
| 15 | - | 729 | 697 | 644 | 572 | 480 | 368 | - | - |
| 20 | - | 814 | 794 | 754 | 693 | 612 | 511 | 390 | - |
| 30 | - | - | 999 | 984 | 947 | 890 | 812 | 712 | 591 |
| 35 | - | - | - | 1 107 | 1 084 | 1 039 | 972 | 884 | 773 |
| 40 | - | - | - | - | 1 228 | 1 196 | 1 141 | 1 065 | 966 |
| 50 | - | - | - | - | - | - | 1 512 | 1 460 | 1 385 |
| **Current consumption in A** | | | | | | | | | |
| 5 | - | 1.23 | 1.16 | 1.06 | 0.90 | - | - | - | - |
| 10 | - | 1.36 | 1.31 | 1.23 | 1.10 | 0.91 | - | - | - |
| 15 | - | 1.48 | 1.45 | 1.39 | 1.28 | 1.12 | 0.89 | - | - |
| 20 | - | 1.61 | 1.59 | 1.55 | 1.47 | 1.33 | 1.13 | 0.84 | - |
| 30 | - | - | 1.89 | 1.88 | 1.84 | 1.75 | 1.61 | 1.38 | 1.07 |
| 35 | - | - | - | 2.06 | 2.04 | 1.97 | 1.85 | 1.66 | 1.38 |
| 40 | - | - | - | - | 2.25 | 2.20 | 2.11 | 1.95 | 1.70 |
| 50 | - | - | - | - | - | - | 2.67 | 2.57 | 2.38 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | - | 49 | 60 | 71 | 85 | - | - | - | - |
| 10 | - | 49 | 60 | 72 | 85 | 100 | - | - | - |
| 15 | - | 49 | 60 | 72 | 85 | 101 | 118 | - | - |
| 20 | - | 49 | 59 | 71 | 85 | 101 | 118 | 138 | - |
| 30 | - | - | 57 | 70 | 84 | 100 | 117 | 137 | 160 |
| 35 | - | - | - | 69 | 83 | 99 | 117 | 137 | 159 |
| 40 | - | - | - | - | 81 | 97 | 115 | 135 | 158 |
| 50 | - | - | - | - | - | - | 112 | 132 | 154 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | - | 5.65 | 7.68 | 10.92 | 16.78 | - | - | - | - |
| 10 | - | 4.75 | 6.25 | 8.48 | 12.05 | 18.53 | - | - | - |
| 15 | - | 4.04 | 5.20 | 6.82 | 9.23 | 13.10 | 20.15 | - | - |
| 20 | - | 3.45 | 4.37 | 5.61 | 7.34 | 9.91 | 14.02 | 21.56 | - |
| 30 | - | - | 3.12 | 3.89 | 4.89 | 6.24 | 8.13 | 10.90 | 15.34 |
| 35 | - | - | - | 3.25 | 4.04 | 5.07 | 6.45 | 8.37 | 11.19 |
| 40 | - | - | - | - | 3.34 | 4.15 | 5.19 | 6.59 | 8.52 |
| 50 | - | - | - | - | - | - | 3.42 | 4.22 | 5.26 |

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

| | | |
|---|---|---|
| Cooling capacity | - | W |
| Power input | - | W |
| Current consumption | - | A |
| Mass flow | - | kg/h |
| C.O.P. | - | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 25 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | - | 3 829 | 4 683 | 5 673 | 6 810 | - | - | - | - |
| 10 | - | 3 682 | 4 515 | 5 478 | 6 584 | 7 843 | - | - | - |
| 15 | - | 3 519 | 4 328 | 5 263 | 6 335 | 7 556 | 8 937 | - | - |
| 20 | - | 3 342 | 4 125 | 5 029 | 6 065 | 7 245 | 8 580 | 10 081 | - |
| 30 | - | - | 3 674 | 4 509 | 5 467 | 6 557 | 7 793 | 9 184 | 10 744 |
| 35 | - | - | - | 4 225 | 5 139 | 6 182 | 7 364 | 8 697 | 10 192 |
| 40 | - | - | - | - | 4 795 | 5 787 | 6 913 | 8 184 | 9 612 |
| 50 | - | - | - | - | - | - | 5 941 | 7 080 | 8 365 |
| **Power input in W** | | | | | | | | | |
| 5 | - | 646 | 572 | 466 | 322 | - | - | - | - |
| 10 | - | 753 | 699 | 615 | 496 | 338 | - | - | - |
| 15 | - | 856 | 821 | 757 | 661 | 529 | 356 | - | - |
| 20 | - | 956 | 939 | 895 | 821 | 712 | 566 | 377 | - |
| 30 | - | - | 1 178 | 1 169 | 1 134 | 1 070 | 972 | 836 | 658 |
| 35 | - | - | - | 1 312 | 1 295 | 1 250 | 1 174 | 1 062 | 910 |
| 40 | - | - | - | - | 1 462 | 1 435 | 1 379 | 1 290 | 1 164 |
| 50 | - | - | - | - | - | - | 1 813 | 1 765 | 1 685 |
| **Current consumption in A** | | | | | | | | | |
| 5 | - | 1.35 | 1.26 | 1.13 | 0.94 | - | - | - | - |
| 10 | - | 1.51 | 1.45 | 1.35 | 1.19 | 0.96 | - | - | - |
| 15 | - | 1.66 | 1.62 | 1.55 | 1.42 | 1.23 | 0.96 | - | - |
| 20 | - | 1.81 | 1.79 | 1.74 | 1.64 | 1.49 | 1.25 | 0.92 | - |
| 30 | - | - | 2.11 | 2.10 | 2.06 | 1.97 | 1.82 | 1.57 | 1.23 |
| 35 | - | - | - | 2.30 | 2.28 | 2.22 | 2.10 | 1.90 | 1.60 |
| 40 | - | - | - | - | 2.51 | 2.48 | 2.39 | 2.22 | 1.97 |
| 50 | - | - | - | - | - | - | 3.02 | 2.93 | 2.76 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | - | 64 | 77 | 92 | 109 | - | - | - | - |
| 10 | - | 63 | 77 | 92 | 109 | 129 | - | - | - |
| 15 | - | 63 | 76 | 92 | 109 | 129 | 152 | - | - |
| 20 | - | 62 | 76 | 91 | 109 | 129 | 151 | 177 | - |
| 30 | - | - | 74 | 89 | 107 | 127 | 150 | 176 | 204 |
| 35 | - | - | - | 88 | 106 | 126 | 149 | 174 | 203 |
| 40 | - | - | - | - | 104 | 124 | 147 | 173 | 202 |
| 50 | - | - | - | - | - | - | 143 | 169 | 197 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | - | 5.92 | 8.18 | 12.19 | 21.17 | - | - | - | - |
| 10 | - | 4.89 | 6.45 | 8.91 | 13.28 | 23.20 | - | - | - |
| 15 | - | 4.11 | 5.27 | 6.95 | 9.58 | 14.29 | 25.09 | - | - |
| 20 | - | 3.49 | 4.39 | 5.62 | 7.39 | 10.17 | 15.16 | 26.73 | - |
| 30 | - | - | 3.12 | 3.86 | 4.82 | 6.13 | 8.02 | 10.99 | 16.33 |
| 35 | - | - | - | 3.22 | 3.97 | 4.95 | 6.27 | 8.19 | 11.19 |
| 40 | - | - | - | - | 3.28 | 4.03 | 5.01 | 6.34 | 8.26 |
| 50 | - | - | - | - | - | - | 3.28 | 4.01 | 4.97 |

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

| | | |
|---|---|---|
| Cooling capacity | - | W |
| Power input | - | W |
| Current consumption | - | A |
| Mass flow | - | kg/h |
| C.O.P. | - | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 25 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | - | 4 043 | 4 942 | 5 983 | 7 178 | - | - | - | - |
| 10 | - | 3 900 | 4 779 | 5 795 | 6 960 | 8 286 | - | - | - |
| 15 | - | 3 740 | 4 597 | 5 586 | 6 720 | 8 009 | 9 467 | - | - |
| 20 | - | 3 566 | 4 399 | 5 359 | 6 458 | 7 709 | 9 123 | 10 713 | - |
| 30 | - | - | 3 956 | 4 851 | 5 875 | 7 042 | 8 362 | 9 848 | 11 512 |
| 35 | - | - | - | 4 572 | 5 556 | 6 678 | 7 948 | 9 379 | 10 983 |
| 40 | - | - | - | - | 5 220 | 6 294 | 7 512 | 8 886 | 10 428 |
| 50 | - | - | - | - | - | - | 6 581 | 7 834 | 9 246 |
| **Power input in W** | | | | | | | | | |
| 5 | - | 646 | 572 | 466 | 322 | - | - | - | - |
| 10 | - | 753 | 699 | 615 | 496 | 338 | - | - | - |
| 15 | - | 856 | 821 | 757 | 661 | 529 | 356 | - | - |
| 20 | - | 956 | 939 | 895 | 821 | 712 | 566 | 377 | - |
| 30 | - | - | 1 178 | 1 169 | 1 134 | 1 070 | 972 | 836 | 658 |
| 35 | - | - | - | 1 312 | 1 295 | 1 250 | 1 174 | 1 062 | 910 |
| 40 | - | - | - | - | 1 462 | 1 435 | 1 379 | 1 290 | 1 164 |
| 50 | - | - | - | - | - | - | 1 813 | 1 765 | 1 685 |
| **Current consumption in A** | | | | | | | | | |
| 5 | - | 1.35 | 1.26 | 1.13 | 0.94 | - | - | - | - |
| 10 | - | 1.51 | 1.45 | 1.35 | 1.19 | 0.96 | - | - | - |
| 15 | - | 1.66 | 1.62 | 1.55 | 1.42 | 1.23 | 0.96 | - | - |
| 20 | - | 1.81 | 1.79 | 1.74 | 1.64 | 1.49 | 1.25 | 0.92 | - |
| 30 | - | - | 2.11 | 2.10 | 2.06 | 1.97 | 1.82 | 1.57 | 1.23 |
| 35 | - | - | - | 2.30 | 2.28 | 2.22 | 2.10 | 1.90 | 1.60 |
| 40 | - | - | - | - | 2.51 | 2.48 | 2.39 | 2.22 | 1.97 |
| 50 | - | - | - | - | - | - | 3.02 | 2.93 | 2.76 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | - | 63 | 76 | 91 | 109 | - | - | - | - |
| 10 | - | 63 | 76 | 91 | 109 | 128 | - | - | - |
| 15 | - | 62 | 76 | 91 | 108 | 128 | 151 | - | - |
| 20 | - | 62 | 75 | 90 | 108 | 128 | 150 | 176 | - |
| 30 | - | - | 73 | 89 | 106 | 126 | 149 | 174 | 203 |
| 35 | - | - | - | 87 | 105 | 125 | 148 | 173 | 202 |
| 40 | - | - | - | - | 103 | 123 | 146 | 172 | 200 |
| 50 | - | - | - | - | - | - | 142 | 167 | 196 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | - | 6.25 | 8.63 | 12.85 | 22.31 | - | - | - | - |
| 10 | - | 5.18 | 6.83 | 9.42 | 14.03 | 24.51 | - | - | - |
| 15 | - | 4.37 | 5.60 | 7.38 | 10.16 | 15.14 | 26.58 | - | - |
| 20 | - | 3.73 | 4.69 | 5.99 | 7.87 | 10.82 | 16.12 | 28.40 | - |
| 30 | - | - | 3.36 | 4.15 | 5.18 | 6.58 | 8.61 | 11.79 | 17.50 |
| 35 | - | - | - | 3.48 | 4.29 | 5.34 | 6.77 | 8.83 | 12.06 |
| 40 | - | - | - | - | 3.57 | 4.39 | 5.45 | 6.89 | 8.96 |
| 50 | - | - | - | - | - | - | 3.63 | 4.44 | 5.49 |

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

| | | |
|---|---|---|
| Cooling capacity | - | W |
| Power input | - | W |
| Current consumption | - | A |
| Mass flow | - | kg/h |
| C.O.P. | - | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 30 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 012 | 3 764 | 4 654 | 5 698 | 6 909 | 8 301 | - | - | - |
| 15 | 2 712 | 3 425 | 4 264 | 5 245 | 6 380 | 7 685 | 9 173 | 10 859 | - |
| 20 | 2 549 | 3 239 | 4 050 | 4 996 | 6 090 | 7 348 | 8 782 | 10 407 | - |
| 30 | 2 202 | 2 841 | 3 588 | 4 457 | 5 462 | 6 617 | 7 936 | 9 434 | 13 020 |
| 40 | - | 2 412 | 3 085 | 3 868 | 4 774 | 5 817 | 7 011 | 8 370 | 11 639 |
| 50 | - | - | - | 3 232 | 4 028 | 4 948 | 6 005 | 7 214 | 10 138 |
| 55 | - | - | - | - | 3 632 | 4 485 | 5 468 | 6 595 | 9 334 |
| 60 | - | - | - | - | - | 3 996 | 4 899 | 5 939 | 8 476 |
| **Power input in W** | | | | | | | | | |
| 5 | 812 | 791 | 740 | 650 | 513 | 323 | - | - | - |
| 15 | 984 | 997 | 989 | 952 | 878 | 760 | 589 | 359 | - |
| 20 | 1 071 | 1 097 | 1 106 | 1 091 | 1 044 | 956 | 822 | 633 | - |
| 30 | 1 271 | 1 313 | 1 347 | 1 366 | 1 363 | 1 329 | 1 257 | 1 140 | 738 |
| 40 | - | 1 580 | 1 627 | 1 668 | 1 696 | 1 703 | 1 682 | 1 624 | 1 371 |
| 50 | - | - | - | 2 032 | 2 079 | 2 115 | 2 131 | 2 121 | 1 990 |
| 55 | - | - | - | - | 2 300 | 2 345 | 2 376 | 2 385 | 2 307 |
| 60 | - | - | - | - | - | 2 598 | 2 641 | 2 666 | 2 633 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 1.61 | 1.55 | 1.48 | 1.38 | 1.22 | 0.99 | - | - | - |
| 15 | 1.92 | 1.88 | 1.85 | 1.80 | 1.72 | 1.57 | 1.35 | 1.03 | - |
| 20 | 2.06 | 2.03 | 2.02 | 1.99 | 1.93 | 1.83 | 1.65 | 1.39 | - |
| 30 | 2.37 | 2.34 | 2.35 | 2.35 | 2.35 | 2.30 | 2.21 | 2.04 | 1.40 |
| 40 | - | 2.72 | 2.73 | 2.76 | 2.79 | 2.80 | 2.77 | 2.68 | 2.26 |
| 50 | - | - | - | 3.28 | 3.33 | 3.38 | 3.40 | 3.38 | 3.14 |
| 55 | - | - | - | - | 3.66 | 3.72 | 3.77 | 3.78 | 3.62 |
| 60 | - | - | - | - | - | 4.12 | 4.18 | 4.22 | 4.13 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 51 | 63 | 77 | 93 | 112 | 133 | - | - | - |
| 15 | 50 | 62 | 76 | 92 | 111 | 132 | 157 | 184 | - |
| 20 | 49 | 61 | 75 | 91 | 110 | 132 | 156 | 184 | - |
| 30 | 46 | 58 | 73 | 89 | 108 | 129 | 154 | 182 | 248 |
| 40 | - | 55 | 69 | 86 | 105 | 126 | 151 | 178 | 244 |
| 50 | - | - | - | 82 | 100 | 122 | 146 | 174 | 239 |
| 55 | - | - | - | - | 98 | 119 | 143 | 171 | 236 |
| 60 | - | - | - | - | - | 116 | 140 | 168 | 233 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.71 | 4.76 | 6.29 | 8.77 | 13.46 | 25.71 | - | - | - |
| 15 | 2.76 | 3.43 | 4.31 | 5.51 | 7.27 | 10.12 | 15.57 | 30.24 | - |
| 20 | 2.38 | 2.95 | 3.66 | 4.58 | 5.84 | 7.68 | 10.68 | 16.45 | - |
| 30 | 1.73 | 2.16 | 2.66 | 3.26 | 4.01 | 4.98 | 6.31 | 8.28 | 17.63 |
| 40 | - | 1.53 | 1.90 | 2.32 | 2.81 | 3.42 | 4.17 | 5.15 | 8.49 |
| 50 | - | - | - | 1.59 | 1.94 | 2.34 | 2.82 | 3.40 | 5.09 |
| 55 | - | - | - | - | 1.58 | 1.91 | 2.30 | 2.77 | 4.05 |
| 60 | - | - | - | - | - | 1.54 | 1.86 | 2.23 | 3.22 |

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

| | | |
|---|---|---|
| Cooling capacity | 6 005 | W |
| Power input | 2 131 | W |
| Current consumption | 3.40 | A |
| Mass flow | 146 | kg/h |
| C.O.P. | 2.82 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 30 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 185 | 3 977 | 4 914 | 6 013 | 7 286 | 8 750 | - | - | - |
| 15 | 2 887 | 3 643 | 4 533 | 5 571 | 6 772 | 8 152 | 9 724 | 11 504 | - |
| 20 | 2 724 | 3 460 | 4 322 | 5 327 | 6 489 | 7 823 | 9 344 | 11 066 | - |
| 30 | 2 379 | 3 065 | 3 867 | 4 799 | 5 875 | 7 112 | 8 523 | 10 123 | 13 951 |
| 40 | - | 2 638 | 3 371 | 4 221 | 5 203 | 6 334 | 7 626 | 9 096 | 12 626 |
| 50 | - | - | - | 3 600 | 4 480 | 5 495 | 6 660 | 7 991 | 11 206 |
| 55 | - | - | - | - | 4 101 | 5 055 | 6 154 | 7 411 | 10 462 |
| 60 | - | - | - | - | - | 4 603 | 5 632 | 6 815 | 9 697 |
| **Power input in W** | | | | | | | | | |
| 5 | 812 | 791 | 740 | 650 | 513 | 323 | - | - | - |
| 15 | 984 | 997 | 989 | 952 | 878 | 760 | 589 | 359 | - |
| 20 | 1 071 | 1 097 | 1 106 | 1 091 | 1 044 | 956 | 822 | 633 | - |
| 30 | 1 271 | 1 313 | 1 347 | 1 366 | 1 363 | 1 329 | 1 257 | 1 140 | 738 |
| 40 | - | 1 580 | 1 627 | 1 668 | 1 696 | 1 703 | 1 682 | 1 624 | 1 371 |
| 50 | - | - | - | 2 032 | 2 079 | 2 115 | 2 131 | 2 121 | 1 990 |
| 55 | - | - | - | - | 2 300 | 2 345 | 2 376 | 2 385 | 2 307 |
| 60 | - | - | - | - | - | 2 598 | 2 641 | 2 666 | 2 633 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 1.61 | 1.55 | 1.48 | 1.38 | 1.22 | 0.99 | - | - | - |
| 15 | 1.92 | 1.88 | 1.85 | 1.80 | 1.72 | 1.57 | 1.35 | 1.03 | - |
| 20 | 2.06 | 2.03 | 2.02 | 1.99 | 1.93 | 1.83 | 1.65 | 1.39 | - |
| 30 | 2.37 | 2.34 | 2.35 | 2.35 | 2.35 | 2.30 | 2.21 | 2.04 | 1.40 |
| 40 | - | 2.72 | 2.73 | 2.76 | 2.79 | 2.80 | 2.77 | 2.68 | 2.26 |
| 50 | - | - | - | 3.28 | 3.33 | 3.38 | 3.40 | 3.38 | 3.14 |
| 55 | - | - | - | - | 3.66 | 3.72 | 3.77 | 3.78 | 3.62 |
| 60 | - | - | - | - | - | 4.12 | 4.18 | 4.22 | 4.13 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 51 | 63 | 77 | 93 | 111 | 132 | - | - | - |
| 15 | 49 | 62 | 76 | 92 | 110 | 132 | 156 | 183 | - |
| 20 | 48 | 61 | 75 | 91 | 110 | 131 | 155 | 182 | - |
| 30 | 46 | 58 | 72 | 89 | 107 | 129 | 153 | 180 | 246 |
| 40 | - | 55 | 69 | 85 | 104 | 125 | 150 | 177 | 242 |
| 50 | - | - | - | 81 | 100 | 121 | 145 | 172 | 237 |
| 55 | - | - | - | - | 97 | 118 | 142 | 170 | 234 |
| 60 | - | - | - | - | - | 115 | 139 | 167 | 231 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.92 | 5.03 | 6.64 | 9.26 | 14.20 | 27.10 | - | - | - |
| 15 | 2.93 | 3.65 | 4.58 | 5.85 | 7.71 | 10.73 | 16.50 | 32.04 | - |
| 20 | 2.54 | 3.15 | 3.91 | 4.88 | 6.22 | 8.18 | 11.37 | 17.49 | - |
| 30 | 1.87 | 2.33 | 2.87 | 3.51 | 4.31 | 5.35 | 6.78 | 8.88 | 18.89 |
| 40 | - | 1.67 | 2.07 | 2.53 | 3.07 | 3.72 | 4.53 | 5.60 | 9.21 |
| 50 | - | - | - | 1.77 | 2.15 | 2.60 | 3.13 | 3.77 | 5.63 |
| 55 | - | - | - | - | 1.78 | 2.16 | 2.59 | 3.11 | 4.54 |
| 60 | - | - | - | - | - | 1.77 | 2.13 | 2.56 | 3.68 |

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

| | | |
|---|---|---|
| Cooling capacity | 6 752 | W |
| Power input | 2 352 | W |
| Current consumption | 3.73 | A |
| Mass flow | 154 | kg/h |
| C.O.P. | 2.87 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 35 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 543 | 4 426 | 5 475 | 6 705 | 8 135 | 9 780 | - | - | - |
| 15 | 3 191 | 4 024 | 5 008 | 6 158 | 7 493 | 9 028 | 10 781 | 12 768 | - |
| 20 | 3 005 | 3 810 | 4 757 | 5 864 | 7 148 | 8 624 | 10 311 | 12 225 | - |
| 30 | 2 616 | 3 357 | 4 226 | 5 239 | 6 413 | 7 766 | 9 312 | 11 070 | 15 287 |
| 40 | - | 2 876 | 3 656 | 4 566 | 5 621 | 6 839 | 8 235 | 9 826 | 13 661 |
| 50 | - | - | - | 3 846 | 4 771 | 5 842 | 7 075 | 8 487 | 11 911 |
| 55 | - | - | - | - | 4 320 | 5 312 | 6 458 | 7 774 | 10 978 |
| 60 | - | - | - | - | - | 4 753 | 5 805 | 7 017 | 9 984 |
| **Power input in W** | | | | | | | | | |
| 5 | 919 | 898 | 841 | 735 | 571 | 337 | - | - | - |
| 15 | 1 118 | 1 136 | 1 130 | 1 091 | 1 007 | 867 | 661 | 377 | - |
| 20 | 1 220 | 1 250 | 1 264 | 1 251 | 1 200 | 1 100 | 941 | 711 | - |
| 30 | 1 458 | 1 499 | 1 537 | 1 563 | 1 565 | 1 531 | 1 452 | 1 317 | 833 |
| 40 | - | 1 812 | 1 857 | 1 903 | 1 938 | 1 953 | 1 936 | 1 877 | 1 586 |
| 50 | - | - | - | 2 316 | 2 367 | 2 412 | 2 438 | 2 436 | 2 302 |
| 55 | - | - | - | - | 2 617 | 2 669 | 2 711 | 2 730 | 2 661 |
| 60 | - | - | - | - | - | 2 953 | 3 005 | 3 042 | 3 027 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 1.76 | 1.70 | 1.62 | 1.50 | 1.31 | 1.04 | - | - | - |
| 15 | 2.12 | 2.09 | 2.05 | 1.99 | 1.89 | 1.73 | 1.48 | 1.12 | - |
| 20 | 2.28 | 2.25 | 2.24 | 2.21 | 2.14 | 2.02 | 1.82 | 1.53 | - |
| 30 | 2.62 | 2.59 | 2.60 | 2.61 | 2.60 | 2.56 | 2.46 | 2.27 | 1.59 |
| 40 | - | 3.01 | 3.01 | 3.05 | 3.08 | 3.10 | 3.08 | 2.99 | 2.55 |
| 50 | - | - | - | 3.61 | 3.67 | 3.73 | 3.77 | 3.77 | 3.54 |
| 55 | - | - | - | - | 4.03 | 4.11 | 4.17 | 4.20 | 4.07 |
| 60 | - | - | - | - | - | 4.54 | 4.62 | 4.68 | 4.64 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 60 | 74 | 91 | 110 | 132 | 157 | - | - | - |
| 15 | 58 | 73 | 89 | 108 | 130 | 156 | 184 | 217 | - |
| 20 | 57 | 72 | 88 | 107 | 129 | 155 | 183 | 216 | - |
| 30 | 55 | 69 | 86 | 105 | 127 | 152 | 181 | 213 | 291 |
| 40 | - | 66 | 82 | 101 | 123 | 148 | 177 | 209 | 286 |
| 50 | - | - | - | 97 | 119 | 144 | 172 | 204 | 281 |
| 55 | - | - | - | - | 116 | 141 | 169 | 201 | 278 |
| 60 | - | - | - | - | - | 138 | 166 | 198 | 274 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.86 | 4.93 | 6.51 | 9.12 | 14.25 | 29.04 | - | - | - |
| 15 | 2.85 | 3.54 | 4.43 | 5.64 | 7.44 | 10.41 | 16.32 | 33.87 | - |
| 20 | 2.46 | 3.05 | 3.76 | 4.69 | 5.96 | 7.84 | 10.96 | 17.19 | - |
| 30 | 1.79 | 2.24 | 2.75 | 3.35 | 4.10 | 5.07 | 6.41 | 8.41 | 18.36 |
| 40 | - | 1.59 | 1.97 | 2.40 | 2.90 | 3.50 | 4.25 | 5.24 | 8.61 |
| 50 | - | - | - | 1.66 | 2.02 | 2.42 | 2.90 | 3.48 | 5.17 |
| 55 | - | - | - | - | 1.65 | 1.99 | 2.38 | 2.85 | 4.13 |
| 60 | - | - | - | - | - | 1.61 | 1.93 | 2.31 | 3.30 |

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

| | | |
|---|---|---|
| Cooling capacity | 7 075 | W |
| Power input | 2 438 | W |
| Current consumption | 3.77 | A |
| Mass flow | 172 | kg/h |
| C.O.P. | 2.90 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 35 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 746 | 4 677 | 5 781 | 7 076 | 8 579 | 10 308 | - | - | - |
| 15 | 3 397 | 4 280 | 5 323 | 6 541 | 7 953 | 9 576 | 11 428 | 13 527 | - |
| 20 | 3 212 | 4 069 | 5 077 | 6 253 | 7 616 | 9 183 | 10 971 | 12 999 | - |
| 30 | 2 825 | 3 622 | 4 554 | 5 641 | 6 899 | 8 346 | 10 000 | 11 879 | 16 380 |
| 40 | - | 3 146 | 3 995 | 4 983 | 6 127 | 7 446 | 8 957 | 10 678 | 14 820 |
| 50 | - | - | - | 4 283 | 5 306 | 6 487 | 7 847 | 9 401 | 13 166 |
| 55 | - | - | - | - | 4 878 | 5 988 | 7 268 | 8 736 | 12 305 |
| 60 | - | - | - | - | - | 5 475 | 6 674 | 8 053 | 11 422 |
| **Power input in W** | | | | | | | | | |
| 5 | 919 | 898 | 841 | 735 | 571 | 337 | - | - | - |
| 15 | 1 118 | 1 136 | 1 130 | 1 091 | 1 007 | 867 | 661 | 377 | - |
| 20 | 1 220 | 1 250 | 1 264 | 1 251 | 1 200 | 1 100 | 941 | 711 | - |
| 30 | 1 458 | 1 499 | 1 537 | 1 563 | 1 565 | 1 531 | 1 452 | 1 317 | 833 |
| 40 | - | 1 812 | 1 857 | 1 903 | 1 938 | 1 953 | 1 936 | 1 877 | 1 586 |
| 50 | - | - | - | 2 316 | 2 367 | 2 412 | 2 438 | 2 436 | 2 302 |
| 55 | - | - | - | - | 2 617 | 2 669 | 2 711 | 2 730 | 2 661 |
| 60 | - | - | - | - | - | 2 953 | 3 005 | 3 042 | 3 027 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 1.76 | 1.70 | 1.62 | 1.50 | 1.31 | 1.04 | - | - | - |
| 15 | 2.12 | 2.09 | 2.05 | 1.99 | 1.89 | 1.73 | 1.48 | 1.12 | - |
| 20 | 2.28 | 2.25 | 2.24 | 2.21 | 2.14 | 2.02 | 1.82 | 1.53 | - |
| 30 | 2.62 | 2.59 | 2.60 | 2.61 | 2.60 | 2.56 | 2.46 | 2.27 | 1.59 |
| 40 | - | 3.01 | 3.01 | 3.05 | 3.08 | 3.10 | 3.08 | 2.99 | 2.55 |
| 50 | - | - | - | 3.61 | 3.67 | 3.73 | 3.77 | 3.77 | 3.54 |
| 55 | - | - | - | - | 4.03 | 4.11 | 4.17 | 4.20 | 4.07 |
| 60 | - | - | - | - | - | 4.54 | 4.62 | 4.68 | 4.64 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 60 | 74 | 90 | 109 | 131 | 156 | - | - | - |
| 15 | 58 | 72 | 89 | 108 | 130 | 155 | 183 | 215 | - |
| 20 | 57 | 71 | 88 | 107 | 129 | 154 | 182 | 214 | - |
| 30 | 54 | 69 | 85 | 104 | 126 | 151 | 179 | 211 | 288 |
| 40 | - | 65 | 82 | 101 | 123 | 147 | 176 | 208 | 284 |
| 50 | - | - | - | 97 | 118 | 143 | 171 | 203 | 279 |
| 55 | - | - | - | - | 116 | 140 | 168 | 200 | 276 |
| 60 | - | - | - | - | - | 137 | 165 | 197 | 272 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 4.08 | 5.21 | 6.88 | 9.63 | 15.03 | 30.61 | - | - | - |
| 15 | 3.04 | 3.77 | 4.71 | 5.99 | 7.90 | 11.04 | 17.29 | 35.88 | - |
| 20 | 2.63 | 3.25 | 4.02 | 5.00 | 6.35 | 8.35 | 11.66 | 18.28 | - |
| 30 | 1.94 | 2.42 | 2.96 | 3.61 | 4.41 | 5.45 | 6.89 | 9.02 | 19.67 |
| 40 | - | 1.74 | 2.15 | 2.62 | 3.16 | 3.81 | 4.63 | 5.69 | 9.35 |
| 50 | - | - | - | 1.85 | 2.24 | 2.69 | 3.22 | 3.86 | 5.72 |
| 55 | - | - | - | - | 1.86 | 2.24 | 2.68 | 3.20 | 4.62 |
| 60 | - | - | - | - | - | 1.85 | 2.22 | 2.65 | 3.77 |

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

| | | |
|---|---|---|
| Cooling capacity | 7 964 | W |
| Power input | 2 688 | W |
| Current consumption | 4.14 | A |
| Mass flow | 182 | kg/h |
| C.O.P. | 2.96 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 40 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 228 | 5 086 | 6 291 | 7 706 | 9 351 | 11 246 | - | - | - |
| 15 | 2 870 | 4 622 | 5 749 | 7 068 | 8 599 | 10 363 | 12 378 | 14 665 | - |
| 20 | 2 686 | 4 379 | 5 463 | 6 730 | 8 202 | 9 896 | 11 833 | 14 032 | - |
| 30 | 2 313 | 3 872 | 4 863 | 6 020 | 7 363 | 8 912 | 10 685 | 12 701 | 17 544 |
| 40 | - | 3 339 | 4 227 | 5 264 | 6 469 | 7 860 | 9 458 | 11 281 | 15 679 |
| 50 | - | - | 3 553 | 4 458 | 5 513 | 6 736 | 8 146 | 9 761 | 13 684 |
| 60 | - | - | - | - | 4 474 | 5 510 | 6 711 | 8 098 | 11 495 |
| 65 | - | - | - | - | 3 894 | 4 822 | 5 904 | 7 158 | 10 250 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 025 | 1 013 | 949 | 829 | 638 | 363 | - | - | - |
| 15 | 1 226 | 1 282 | 1 279 | 1 238 | 1 144 | 984 | 744 | 410 | - |
| 20 | 1 339 | 1 411 | 1 430 | 1 419 | 1 364 | 1 252 | 1 070 | 802 | - |
| 30 | 1 623 | 1 692 | 1 736 | 1 768 | 1 774 | 1 741 | 1 655 | 1 502 | 941 |
| 40 | - | 2 049 | 2 095 | 2 146 | 2 189 | 2 211 | 2 198 | 2 136 | 1 810 |
| 50 | - | - | 2 561 | 2 608 | 2 665 | 2 718 | 2 754 | 2 759 | 2 620 |
| 60 | - | - | - | - | 3 256 | 3 317 | 3 378 | 3 426 | 3 427 |
| 65 | - | - | - | - | 3 613 | 3 668 | 3 732 | 3 793 | 3 846 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 1.99 | 1.86 | 1.77 | 1.62 | 1.41 | 1.11 | - | - | - |
| 15 | 2.38 | 2.29 | 2.26 | 2.19 | 2.08 | 1.90 | 1.61 | 1.21 | - |
| 20 | 2.56 | 2.48 | 2.46 | 2.43 | 2.36 | 2.23 | 2.01 | 1.68 | - |
| 30 | 2.95 | 2.85 | 2.86 | 2.87 | 2.87 | 2.83 | 2.72 | 2.52 | 1.78 |
| 40 | - | 3.30 | 3.31 | 3.35 | 3.39 | 3.42 | 3.40 | 3.32 | 2.86 |
| 50 | - | - | 3.92 | 3.97 | 4.04 | 4.11 | 4.16 | 4.17 | 3.96 |
| 60 | - | - | - | - | 4.89 | 4.99 | 5.09 | 5.17 | 5.16 |
| 65 | - | - | - | - | 5.43 | 5.53 | 5.65 | 5.75 | 5.84 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 55 | 85 | 104 | 126 | 152 | 181 | - | - | - |
| 15 | 53 | 84 | 102 | 124 | 150 | 179 | 212 | 249 | - |
| 20 | 52 | 82 | 101 | 123 | 148 | 177 | 210 | 248 | - |
| 30 | 49 | 80 | 99 | 120 | 146 | 174 | 207 | 244 | 334 |
| 40 | - | 76 | 95 | 117 | 142 | 171 | 203 | 240 | 329 |
| 50 | - | - | 91 | 113 | 137 | 166 | 198 | 235 | 323 |
| 60 | - | - | - | - | 132 | 160 | 192 | 229 | 316 |
| 65 | - | - | - | - | 129 | 157 | 189 | 225 | 312 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.15 | 5.02 | 6.63 | 9.30 | 14.66 | 30.96 | - | - | - |
| 15 | 2.34 | 3.61 | 4.49 | 5.71 | 7.52 | 10.54 | 16.65 | 35.79 | - |
| 20 | 2.01 | 3.10 | 3.82 | 4.74 | 6.01 | 7.90 | 11.06 | 17.50 | - |
| 30 | 1.43 | 2.29 | 2.80 | 3.41 | 4.15 | 5.12 | 6.46 | 8.46 | 18.65 |
| 40 | - | 1.63 | 2.02 | 2.45 | 2.95 | 3.55 | 4.30 | 5.28 | 8.66 |
| 50 | - | - | 1.39 | 1.71 | 2.07 | 2.48 | 2.96 | 3.54 | 5.22 |
| 60 | - | - | - | - | 1.37 | 1.66 | 1.99 | 2.36 | 3.35 |
| 65 | - | - | - | - | 1.08 | 1.31 | 1.58 | 1.89 | 2.67 |

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

| | | |
|---|---|---|
| Cooling capacity | 8 146 | W |
| Power input | 2 754 | W |
| Current consumption | 4.16 | A |
| Mass flow | 198 | kg/h |
| C.O.P. | 2.96 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 40 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 415 | 5 373 | 6 642 | 8 132 | 9 862 | 11 854 | - | - | - |
| 15 | 3 057 | 4 917 | 6 110 | 7 507 | 9 128 | 10 992 | 13 121 | 15 535 | - |
| 20 | 2 874 | 4 677 | 5 830 | 7 177 | 8 739 | 10 537 | 12 590 | 14 920 | - |
| 30 | 2 501 | 4 177 | 5 241 | 6 482 | 7 921 | 9 578 | 11 474 | 13 629 | 18 799 |
| 40 | - | 3 652 | 4 618 | 5 744 | 7 051 | 8 558 | 10 288 | 12 259 | 17 009 |
| 50 | - | - | 3 964 | 4 966 | 6 131 | 7 480 | 9 034 | 10 812 | 15 125 |
| 60 | - | - | - | - | 5 165 | 6 347 | 7 716 | 9 292 | 13 150 |
| 65 | - | - | - | - | 4 665 | 5 760 | 7 033 | 8 505 | 12 129 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 025 | 1 013 | 949 | 829 | 638 | 363 | - | - | - |
| 15 | 1 226 | 1 282 | 1 279 | 1 238 | 1 144 | 984 | 744 | 410 | - |
| 20 | 1 339 | 1 411 | 1 430 | 1 419 | 1 364 | 1 252 | 1 070 | 802 | - |
| 30 | 1 623 | 1 692 | 1 736 | 1 768 | 1 774 | 1 741 | 1 655 | 1 502 | 941 |
| 40 | - | 2 049 | 2 095 | 2 146 | 2 189 | 2 211 | 2 198 | 2 136 | 1 810 |
| 50 | - | - | 2 561 | 2 608 | 2 665 | 2 718 | 2 754 | 2 759 | 2 620 |
| 60 | - | - | - | - | 3 256 | 3 317 | 3 378 | 3 426 | 3 427 |
| 65 | - | - | - | - | 3 613 | 3 668 | 3 732 | 3 793 | 3 846 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 1.99 | 1.86 | 1.77 | 1.62 | 1.41 | 1.11 | - | - | - |
| 15 | 2.38 | 2.29 | 2.26 | 2.19 | 2.08 | 1.90 | 1.61 | 1.21 | - |
| 20 | 2.56 | 2.48 | 2.46 | 2.43 | 2.36 | 2.23 | 2.01 | 1.68 | - |
| 30 | 2.95 | 2.85 | 2.86 | 2.87 | 2.87 | 2.83 | 2.72 | 2.52 | 1.78 |
| 40 | - | 3.30 | 3.31 | 3.35 | 3.39 | 3.42 | 3.40 | 3.32 | 2.86 |
| 50 | - | - | 3.92 | 3.97 | 4.04 | 4.11 | 4.16 | 4.17 | 3.96 |
| 60 | - | - | - | - | 4.89 | 4.99 | 5.09 | 5.17 | 5.16 |
| 65 | - | - | - | - | 5.43 | 5.53 | 5.65 | 5.75 | 5.84 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 55 | 85 | 104 | 125 | 151 | 179 | - | - | - |
| 15 | 53 | 83 | 102 | 124 | 149 | 177 | 210 | 247 | - |
| 20 | 52 | 82 | 101 | 122 | 148 | 176 | 209 | 246 | - |
| 30 | 49 | 79 | 98 | 120 | 145 | 173 | 206 | 243 | 331 |
| 40 | - | 76 | 95 | 116 | 141 | 169 | 202 | 238 | 326 |
| 50 | - | - | 90 | 112 | 137 | 165 | 197 | 233 | 320 |
| 60 | - | - | - | - | 131 | 159 | 191 | 227 | 313 |
| 65 | - | - | - | - | 128 | 156 | 188 | 224 | 310 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.33 | 5.31 | 7.00 | 9.81 | 15.46 | 32.63 | - | - | - |
| 15 | 2.49 | 3.84 | 4.78 | 6.07 | 7.98 | 11.17 | 17.65 | 37.91 | - |
| 20 | 2.15 | 3.32 | 4.08 | 5.06 | 6.41 | 8.41 | 11.77 | 18.60 | - |
| 30 | 1.54 | 2.47 | 3.02 | 3.67 | 4.46 | 5.50 | 6.93 | 9.07 | 19.99 |
| 40 | - | 1.78 | 2.20 | 2.68 | 3.22 | 3.87 | 4.68 | 5.74 | 9.40 |
| 50 | - | - | 1.55 | 1.90 | 2.30 | 2.75 | 3.28 | 3.92 | 5.77 |
| 60 | - | - | - | - | 1.59 | 1.91 | 2.28 | 2.71 | 3.84 |
| 65 | - | - | - | - | 1.29 | 1.57 | 1.88 | 2.24 | 3.15 |

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

| | | |
|---|---|---|
| Cooling capacity | 9 178 | W |
| Power input | 3 032 | W |
| Current consumption | 4.57 | A |
| Mass flow | 210 | kg/h |
| C.O.P. | 3.03 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 45 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 647 | 5 742 | 7 102 | 8 700 | 10 559 | 12 700 | - | - | - |
| 15 | 3 248 | 5 219 | 6 487 | 7 974 | 9 701 | 11 691 | 13 966 | 16 548 | - |
| 20 | 3 046 | 4 948 | 6 167 | 7 594 | 9 252 | 11 162 | 13 347 | 15 829 | - |
| 30 | 2 638 | 4 386 | 5 499 | 6 801 | 8 312 | 10 056 | 12 053 | 14 327 | 19 791 |
| 40 | - | 3 799 | 4 796 | 5 961 | 7 316 | 8 882 | 10 680 | 12 734 | 17 693 |
| 50 | - | - | 4 053 | 5 069 | 6 255 | 7 630 | 9 217 | 11 036 | 15 458 |
| 60 | - | - | - | - | 5 101 | 6 266 | 7 618 | 9 179 | 13 008 |
| 65 | - | - | - | - | 4 455 | 5 499 | 6 717 | 8 129 | 11 614 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 143 | 1 134 | 1 065 | 931 | 715 | 403 | - | - | - |
| 15 | 1 371 | 1 436 | 1 435 | 1 392 | 1 288 | 1 109 | 838 | 458 | - |
| 20 | 1 499 | 1 579 | 1 603 | 1 594 | 1 536 | 1 412 | 1 207 | 905 | - |
| 30 | 1 824 | 1 893 | 1 942 | 1 981 | 1 992 | 1 959 | 1 865 | 1 696 | 1 062 |
| 40 | - | 2 293 | 2 341 | 2 398 | 2 449 | 2 478 | 2 467 | 2 402 | 2 042 |
| 50 | - | - | 2 862 | 2 909 | 2 972 | 3 033 | 3 078 | 3 088 | 2 944 |
| 60 | - | - | - | - | 3 624 | 3 690 | 3 760 | 3 817 | 3 831 |
| 65 | - | - | - | - | 4 018 | 4 076 | 4 148 | 4 218 | 4 289 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.16 | 2.02 | 1.92 | 1.76 | 1.52 | 1.18 | - | - | - |
| 15 | 2.59 | 2.51 | 2.47 | 2.40 | 2.28 | 2.07 | 1.76 | 1.31 | - |
| 20 | 2.78 | 2.71 | 2.70 | 2.67 | 2.59 | 2.44 | 2.20 | 1.84 | - |
| 30 | 3.21 | 3.12 | 3.13 | 3.15 | 3.15 | 3.11 | 2.99 | 2.78 | 1.98 |
| 40 | - | 3.61 | 3.63 | 3.67 | 3.73 | 3.76 | 3.74 | 3.66 | 3.18 |
| 50 | - | - | 4.29 | 4.34 | 4.42 | 4.50 | 4.57 | 4.59 | 4.39 |
| 60 | - | - | - | - | 5.35 | 5.46 | 5.57 | 5.67 | 5.70 |
| 65 | - | - | - | - | 5.93 | 6.05 | 6.18 | 6.30 | 6.43 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 62 | 96 | 118 | 143 | 171 | 204 | - | - | - |
| 15 | 60 | 94 | 116 | 140 | 169 | 202 | 239 | 281 | - |
| 20 | 59 | 93 | 114 | 139 | 168 | 200 | 237 | 280 | - |
| 30 | 56 | 90 | 111 | 136 | 164 | 197 | 234 | 276 | 376 |
| 40 | - | 87 | 108 | 132 | 160 | 193 | 229 | 271 | 371 |
| 50 | - | - | 104 | 128 | 156 | 188 | 224 | 266 | 365 |
| 60 | - | - | - | - | 151 | 182 | 218 | 259 | 358 |
| 65 | - | - | - | - | 148 | 179 | 215 | 256 | 354 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.19 | 5.06 | 6.67 | 9.35 | 14.76 | 31.55 | - | - | - |
| 15 | 2.37 | 3.64 | 4.52 | 5.73 | 7.53 | 10.54 | 16.67 | 36.17 | - |
| 20 | 2.03 | 3.13 | 3.85 | 4.76 | 6.02 | 7.90 | 11.05 | 17.50 | - |
| 30 | 1.45 | 2.32 | 2.83 | 3.43 | 4.17 | 5.13 | 6.46 | 8.45 | 18.63 |
| 40 | - | 1.66 | 2.05 | 2.49 | 2.99 | 3.58 | 4.33 | 5.30 | 8.67 |
| 50 | - | - | 1.42 | 1.74 | 2.10 | 2.52 | 2.99 | 3.57 | 5.25 |
| 60 | - | - | - | - | 1.41 | 1.70 | 2.03 | 2.40 | 3.40 |
| 65 | - | - | - | - | 1.11 | 1.35 | 1.62 | 1.93 | 2.71 |

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

| | | |
|---|---|---|
| Cooling capacity | 9 217 | W |
| Power input | 3 078 | W |
| Current consumption | 4.57 | A |
| Mass flow | 224 | kg/h |
| C.O.P. | 2.99 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 45 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 3 858 | 6 067 | 7 499 | 9 181 | 11 135 | 13 386 | - | - | - |
| 15 | 3 460 | 5 551 | 6 895 | 8 469 | 10 297 | 12 401 | 14 804 | 17 530 | - |
| 20 | 3 259 | 5 284 | 6 581 | 8 098 | 9 858 | 11 885 | 14 202 | 16 831 | - |
| 30 | 2 852 | 4 732 | 5 927 | 7 322 | 8 941 | 10 808 | 12 944 | 15 374 | 21 207 |
| 40 | - | 4 156 | 5 240 | 6 505 | 7 974 | 9 670 | 11 617 | 13 838 | 19 194 |
| 50 | - | - | 4 522 | 5 646 | 6 956 | 8 473 | 10 222 | 12 225 | 17 085 |
| 60 | - | - | - | - | 5 889 | 7 218 | 8 758 | 10 534 | 14 881 |
| 65 | - | - | - | - | 5 336 | 6 568 | 8 001 | 9 660 | 13 743 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 143 | 1 134 | 1 065 | 931 | 715 | 403 | - | - | - |
| 15 | 1 371 | 1 436 | 1 435 | 1 392 | 1 288 | 1 109 | 838 | 458 | - |
| 20 | 1 499 | 1 579 | 1 603 | 1 594 | 1 536 | 1 412 | 1 207 | 905 | - |
| 30 | 1 824 | 1 893 | 1 942 | 1 981 | 1 992 | 1 959 | 1 865 | 1 696 | 1 062 |
| 40 | - | 2 293 | 2 341 | 2 398 | 2 449 | 2 478 | 2 467 | 2 402 | 2 042 |
| 50 | - | - | 2 862 | 2 909 | 2 972 | 3 033 | 3 078 | 3 088 | 2 944 |
| 60 | - | - | - | - | 3 624 | 3 690 | 3 760 | 3 817 | 3 831 |
| 65 | - | - | - | - | 4 018 | 4 076 | 4 148 | 4 218 | 4 289 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.16 | 2.02 | 1.92 | 1.76 | 1.52 | 1.18 | - | - | - |
| 15 | 2.59 | 2.51 | 2.47 | 2.40 | 2.28 | 2.07 | 1.76 | 1.31 | - |
| 20 | 2.78 | 2.71 | 2.70 | 2.67 | 2.59 | 2.44 | 2.20 | 1.84 | - |
| 30 | 3.21 | 3.12 | 3.13 | 3.15 | 3.15 | 3.11 | 2.99 | 2.78 | 1.98 |
| 40 | - | 3.61 | 3.63 | 3.67 | 3.73 | 3.76 | 3.74 | 3.66 | 3.18 |
| 50 | - | - | 4.29 | 4.34 | 4.42 | 4.50 | 4.57 | 4.59 | 4.39 |
| 60 | - | - | - | - | 5.35 | 5.46 | 5.57 | 5.67 | 5.70 |
| 65 | - | - | - | - | 5.93 | 6.05 | 6.18 | 6.30 | 6.43 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 62 | 96 | 117 | 142 | 170 | 203 | - | - | - |
| 15 | 60 | 94 | 115 | 140 | 168 | 200 | 237 | 279 | - |
| 20 | 58 | 93 | 114 | 138 | 166 | 199 | 236 | 277 | - |
| 30 | 56 | 90 | 111 | 135 | 163 | 195 | 232 | 274 | 373 |
| 40 | - | 86 | 107 | 132 | 159 | 191 | 228 | 269 | 368 |
| 50 | - | - | 103 | 127 | 155 | 187 | 223 | 264 | 362 |
| 60 | - | - | - | - | 150 | 181 | 217 | 257 | 355 |
| 65 | - | - | - | - | 147 | 178 | 214 | 254 | 351 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.37 | 5.35 | 7.04 | 9.87 | 15.57 | 33.25 | - | - | - |
| 15 | 2.52 | 3.87 | 4.80 | 6.09 | 7.99 | 11.18 | 17.67 | 38.31 | - |
| 20 | 2.17 | 3.35 | 4.11 | 5.08 | 6.42 | 8.41 | 11.76 | 18.60 | - |
| 30 | 1.56 | 2.50 | 3.05 | 3.70 | 4.49 | 5.52 | 6.94 | 9.07 | 19.96 |
| 40 | - | 1.81 | 2.24 | 2.71 | 3.26 | 3.90 | 4.71 | 5.76 | 9.40 |
| 50 | - | - | 1.58 | 1.94 | 2.34 | 2.79 | 3.32 | 3.96 | 5.80 |
| 60 | - | - | - | - | 1.62 | 1.96 | 2.33 | 2.76 | 3.88 |
| 65 | - | - | - | - | 1.33 | 1.61 | 1.93 | 2.29 | 3.20 |

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

| | | |
|---|---|---|
| Cooling capacity | 10 392 | W |
| Power input | 3 384 | W |
| Current consumption | 5.01 | A |
| Mass flow | 238 | kg/h |
| C.O.P. | 3.07 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 4 065 | 6 395 | 7 908 | 9 687 | 11 756 | 14 141 | - | - | - |
| 15 | 3 625 | 5 814 | 7 223 | 8 876 | 10 797 | 13 011 | 15 543 | 18 418 | - |
| 20 | 3 405 | 5 515 | 6 869 | 8 455 | 10 298 | 12 423 | 14 854 | 17 616 | - |
| 30 | 2 961 | 4 900 | 6 135 | 7 580 | 9 260 | 11 198 | 13 419 | 15 948 | 22 029 |
| 40 | - | 4 259 | 5 365 | 6 658 | 8 162 | 9 902 | 11 902 | 14 186 | 19 703 |
| 50 | - | - | 4 551 | 5 680 | 6 996 | 8 525 | 10 289 | 12 312 | 17 231 |
| 60 | - | - | - | - | 5 726 | 7 022 | 8 526 | 10 263 | 14 523 |
| 65 | - | - | - | - | 5 013 | 6 175 | 7 531 | 9 102 | 12 981 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 269 | 1 263 | 1 188 | 1 041 | 802 | 454 | - | - | - |
| 15 | 1 522 | 1 597 | 1 599 | 1 553 | 1 441 | 1 244 | 943 | 520 | - |
| 20 | 1 664 | 1 756 | 1 784 | 1 777 | 1 715 | 1 581 | 1 355 | 1 019 | - |
| 30 | 2 028 | 2 101 | 2 157 | 2 202 | 2 217 | 2 184 | 2 083 | 1 898 | 1 198 |
| 40 | - | 2 544 | 2 595 | 2 659 | 2 717 | 2 752 | 2 744 | 2 676 | 2 283 |
| 50 | - | - | 3 168 | 3 218 | 3 288 | 3 358 | 3 409 | 3 425 | 3 273 |
| 60 | - | - | - | - | 4 000 | 4 072 | 4 150 | 4 217 | 4 241 |
| 65 | - | - | - | - | 4 431 | 4 492 | 4 572 | 4 651 | 4 738 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.33 | 2.19 | 2.08 | 1.91 | 1.64 | 1.25 | - | - | - |
| 15 | 2.80 | 2.73 | 2.69 | 2.62 | 2.48 | 2.25 | 1.91 | 1.42 | - |
| 20 | 3.01 | 2.96 | 2.95 | 2.91 | 2.83 | 2.67 | 2.40 | 2.01 | - |
| 30 | 3.47 | 3.40 | 3.42 | 3.45 | 3.45 | 3.40 | 3.28 | 3.05 | 2.19 |
| 40 | - | 3.93 | 3.96 | 4.01 | 4.08 | 4.11 | 4.10 | 4.02 | 3.52 |
| 50 | - | - | 4.68 | 4.74 | 4.83 | 4.92 | 5.00 | 5.02 | 4.83 |
| 60 | - | - | - | - | 5.82 | 5.95 | 6.08 | 6.19 | 6.24 |
| 65 | - | - | - | - | 6.45 | 6.58 | 6.73 | 6.87 | 7.03 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 69 | 107 | 131 | 159 | 191 | 227 | - | - | - |
| 15 | 67 | 105 | 129 | 156 | 188 | 224 | 266 | 313 | - |
| 20 | 66 | 104 | 127 | 155 | 186 | 223 | 264 | 311 | - |
| 30 | 63 | 101 | 124 | 152 | 183 | 219 | 260 | 307 | 419 |
| 40 | - | 97 | 121 | 148 | 179 | 215 | 256 | 302 | 413 |
| 50 | - | - | 117 | 143 | 174 | 210 | 250 | 296 | 407 |
| 60 | - | - | - | - | 169 | 204 | 244 | 290 | 399 |
| 65 | - | - | - | - | 166 | 201 | 241 | 286 | 395 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.20 | 5.06 | 6.66 | 9.31 | 14.65 | 31.12 | - | - | - |
| 15 | 2.38 | 3.64 | 4.52 | 5.71 | 7.49 | 10.46 | 16.48 | 35.40 | - |
| 20 | 2.05 | 3.14 | 3.85 | 4.76 | 6.00 | 7.86 | 10.96 | 17.28 | - |
| 30 | 1.46 | 2.33 | 2.84 | 3.44 | 4.18 | 5.13 | 6.44 | 8.40 | 18.39 |
| 40 | - | 1.67 | 2.07 | 2.50 | 3.00 | 3.60 | 4.34 | 5.30 | 8.63 |
| 50 | - | - | 1.44 | 1.76 | 2.13 | 2.54 | 3.02 | 3.59 | 5.26 |
| 60 | - | - | - | - | 1.43 | 1.72 | 2.05 | 2.43 | 3.42 |
| 65 | - | - | - | - | 1.13 | 1.37 | 1.65 | 1.96 | 2.74 |

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

| | | |
|---|---|---|
| Cooling capacity | 10 289 | W |
| Power input | 3 409 | W |
| Current consumption | 5.00 | A |
| Mass flow | 250 | kg/h |
| C.O.P. | 3.02 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 4 301 | 6 757 | 8 350 | 10 222 | 12 399 | 14 905 | - | - | - |
| 15 | 3 863 | 6 184 | 7 678 | 9 428 | 11 461 | 13 801 | 16 476 | 19 511 | - |
| 20 | 3 643 | 5 890 | 7 331 | 9 016 | 10 973 | 13 227 | 15 805 | 18 732 | - |
| 30 | 3 201 | 5 286 | 6 612 | 8 162 | 9 961 | 12 035 | 14 411 | 17 114 | 23 605 |
| 40 | - | 4 659 | 5 861 | 7 265 | 8 897 | 10 782 | 12 946 | 15 416 | 21 375 |
| 50 | - | - | 5 077 | 6 326 | 7 781 | 9 467 | 11 410 | 13 637 | 19 045 |
| 60 | - | - | - | - | 6 611 | 8 089 | 9 802 | 11 777 | 16 614 |
| 65 | - | - | - | - | 6 005 | 7 375 | 8 970 | 10 815 | 15 361 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 269 | 1 263 | 1 188 | 1 041 | 802 | 454 | - | - | - |
| 15 | 1 522 | 1 597 | 1 599 | 1 553 | 1 441 | 1 244 | 943 | 520 | - |
| 20 | 1 664 | 1 756 | 1 784 | 1 777 | 1 715 | 1 581 | 1 355 | 1 019 | - |
| 30 | 2 028 | 2 101 | 2 157 | 2 202 | 2 217 | 2 184 | 2 083 | 1 898 | 1 198 |
| 40 | - | 2 544 | 2 595 | 2 659 | 2 717 | 2 752 | 2 744 | 2 676 | 2 283 |
| 50 | - | - | 3 168 | 3 218 | 3 288 | 3 358 | 3 409 | 3 425 | 3 273 |
| 60 | - | - | - | - | 4 000 | 4 072 | 4 150 | 4 217 | 4 241 |
| 65 | - | - | - | - | 4 431 | 4 492 | 4 572 | 4 651 | 4 738 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.33 | 2.19 | 2.08 | 1.91 | 1.64 | 1.25 | - | - | - |
| 15 | 2.80 | 2.73 | 2.69 | 2.62 | 2.48 | 2.25 | 1.91 | 1.42 | - |
| 20 | 3.01 | 2.96 | 2.95 | 2.91 | 2.83 | 2.67 | 2.40 | 2.01 | - |
| 30 | 3.47 | 3.40 | 3.42 | 3.45 | 3.45 | 3.40 | 3.28 | 3.05 | 2.19 |
| 40 | - | 3.93 | 3.96 | 4.01 | 4.08 | 4.11 | 4.10 | 4.02 | 3.52 |
| 50 | - | - | 4.68 | 4.74 | 4.83 | 4.92 | 5.00 | 5.02 | 4.83 |
| 60 | - | - | - | - | 5.82 | 5.95 | 6.08 | 6.19 | 6.24 |
| 65 | - | - | - | - | 6.45 | 6.58 | 6.73 | 6.87 | 7.03 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 69 | 107 | 130 | 158 | 189 | 226 | - | - | - |
| 15 | 67 | 104 | 128 | 155 | 187 | 223 | 264 | 311 | - |
| 20 | 65 | 103 | 127 | 154 | 185 | 221 | 262 | 309 | - |
| 30 | 62 | 100 | 124 | 151 | 182 | 218 | 258 | 305 | 415 |
| 40 | - | 97 | 120 | 147 | 178 | 213 | 254 | 300 | 410 |
| 50 | - | - | 116 | 143 | 173 | 208 | 249 | 294 | 403 |
| 60 | - | - | - | - | 168 | 203 | 243 | 288 | 396 |
| 65 | - | - | - | - | 165 | 200 | 239 | 284 | 392 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.39 | 5.35 | 7.03 | 9.82 | 15.45 | 32.80 | - | - | - |
| 15 | 2.54 | 3.87 | 4.80 | 6.07 | 7.95 | 11.10 | 17.47 | 37.50 | - |
| 20 | 2.19 | 3.36 | 4.11 | 5.07 | 6.40 | 8.37 | 11.67 | 18.37 | - |
| 30 | 1.58 | 2.52 | 3.06 | 3.71 | 4.49 | 5.51 | 6.92 | 9.02 | 19.71 |
| 40 | - | 1.83 | 2.26 | 2.73 | 3.27 | 3.92 | 4.72 | 5.76 | 9.36 |
| 50 | - | - | 1.60 | 1.97 | 2.37 | 2.82 | 3.35 | 3.98 | 5.82 |
| 60 | - | - | - | - | 1.65 | 1.99 | 2.36 | 2.79 | 3.92 |
| 65 | - | - | - | - | 1.36 | 1.64 | 1.96 | 2.33 | 3.24 |

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

| | | |
|---|---|---|
| Cooling capacity | 11 608 | W |
| Power input | 3 745 | W |
| Current consumption | 5.48 | A |
| Mass flow | 265 | kg/h |
| C.O.P. | 3.10 | |

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 55 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 4 482 | 7 045 | 8 710 | 10 667 | 12 945 | 15 570 | - | - | - |
| 15 | 4 002 | 6 408 | 7 958 | 9 775 | 11 889 | 14 324 | 17 111 | 20 275 | - |
| 20 | 3 762 | 6 082 | 7 570 | 9 314 | 11 341 | 13 679 | 16 353 | 19 393 | - |
| 30 | 3 282 | 5 413 | 6 770 | 8 359 | 10 206 | 12 337 | 14 781 | 17 564 | 24 257 |
| 40 | - | 4 716 | 5 932 | 7 354 | 9 009 | 10 923 | 13 123 | 15 636 | 21 709 |
| 50 | - | - | 5 046 | 6 288 | 7 737 | 9 420 | 11 361 | 13 588 | 19 004 |
| 60 | - | - | - | - | 6 350 | 7 778 | 9 435 | 11 348 | 16 041 |
| 65 | - | - | - | - | 5 569 | 6 850 | 8 344 | 10 076 | 14 351 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 401 | 1 399 | 1 319 | 1 159 | 899 | 519 | - | - | - |
| 15 | 1 679 | 1 766 | 1 771 | 1 723 | 1 602 | 1 387 | 1 059 | 598 | - |
| 20 | 1 835 | 1 940 | 1 973 | 1 967 | 1 902 | 1 757 | 1 512 | 1 146 | - |
| 30 | 2 234 | 2 317 | 2 381 | 2 432 | 2 450 | 2 416 | 2 309 | 2 108 | 1 347 |
| 40 | - | 2 800 | 2 857 | 2 929 | 2 995 | 3 035 | 3 029 | 2 956 | 2 532 |
| 50 | - | - | 3 481 | 3 536 | 3 613 | 3 691 | 3 750 | 3 769 | 3 609 |
| 60 | - | - | - | - | 4 384 | 4 463 | 4 550 | 4 624 | 4 655 |
| 65 | - | - | - | - | 4 852 | 4 917 | 5 005 | 5 093 | 5 192 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.50 | 2.37 | 2.26 | 2.06 | 1.77 | 1.34 | - | - | - |
| 15 | 3.01 | 2.96 | 2.92 | 2.85 | 2.69 | 2.44 | 2.06 | 1.53 | - |
| 20 | 3.24 | 3.20 | 3.20 | 3.17 | 3.08 | 2.90 | 2.61 | 2.18 | - |
| 30 | 3.74 | 3.69 | 3.72 | 3.75 | 3.76 | 3.71 | 3.58 | 3.34 | 2.41 |
| 40 | - | 4.27 | 4.30 | 4.37 | 4.44 | 4.49 | 4.48 | 4.39 | 3.86 |
| 50 | - | - | 5.08 | 5.15 | 5.25 | 5.36 | 5.45 | 5.48 | 5.28 |
| 60 | - | - | - | - | 6.32 | 6.46 | 6.61 | 6.73 | 6.80 |
| 65 | - | - | - | - | 7.00 | 7.14 | 7.30 | 7.46 | 7.64 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 76 | 118 | 144 | 175 | 210 | 250 | - | - | - |
| 15 | 74 | 116 | 142 | 172 | 207 | 247 | 293 | 344 | - |
| 20 | 73 | 114 | 140 | 171 | 205 | 245 | 291 | 342 | - |
| 30 | 70 | 111 | 137 | 167 | 202 | 241 | 287 | 338 | 461 |
| 40 | - | 108 | 133 | 163 | 198 | 237 | 282 | 333 | 455 |
| 50 | - | - | 129 | 159 | 193 | 232 | 276 | 327 | 448 |
| 60 | - | - | - | - | 188 | 226 | 270 | 321 | 441 |
| 65 | - | - | - | - | 185 | 223 | 267 | 317 | 437 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.20 | 5.04 | 6.60 | 9.20 | 14.40 | 29.99 | - | - | - |
| 15 | 2.38 | 3.63 | 4.49 | 5.68 | 7.42 | 10.33 | 16.15 | 33.91 | - |
| 20 | 2.05 | 3.14 | 3.84 | 4.73 | 5.96 | 7.79 | 10.82 | 16.92 | - |
| 30 | 1.47 | 2.34 | 2.84 | 3.44 | 4.16 | 5.11 | 6.40 | 8.33 | 18.01 |
| 40 | - | 1.68 | 2.08 | 2.51 | 3.01 | 3.60 | 4.33 | 5.29 | 8.57 |
| 50 | - | - | 1.45 | 1.78 | 2.14 | 2.55 | 3.03 | 3.61 | 5.27 |
| 60 | - | - | - | - | 1.45 | 1.74 | 2.07 | 2.45 | 3.45 |
| 65 | - | - | - | - | 1.15 | 1.39 | 1.67 | 1.98 | 2.76 |

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

| | | |
|---|---|---|
| Cooling capacity | 11 361 | W |
| Power input | 3 750 | W |
| Current consumption | 5.45 | A |
| Mass flow | 276 | kg/h |
| C.O.P. | 3.03 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 55 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 4 742 | 7 443 | 9 197 | 11 257 | 13 652 | 16 411 | - | - | - |
| 15 | 4 264 | 6 816 | 8 458 | 10 383 | 12 619 | 15 194 | 18 138 | 21 478 | - |
| 20 | 4 025 | 6 495 | 8 079 | 9 932 | 12 084 | 14 564 | 17 400 | 20 621 | - |
| 30 | 3 548 | 5 839 | 7 297 | 9 000 | 10 978 | 13 260 | 15 873 | 18 847 | 25 992 |
| 40 | - | 5 159 | 6 481 | 8 025 | 9 820 | 11 893 | 14 274 | 16 992 | 23 551 |
| 50 | - | - | 5 630 | 7 004 | 8 605 | 10 461 | 12 600 | 15 051 | 21 005 |
| 60 | - | - | - | - | 7 331 | 8 959 | 10 847 | 13 022 | 18 351 |
| 65 | - | - | - | - | 6 671 | 8 181 | 9 939 | 11 973 | 16 982 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 401 | 1 399 | 1 319 | 1 159 | 899 | 519 | - | - | - |
| 15 | 1 679 | 1 766 | 1 771 | 1 723 | 1 602 | 1 387 | 1 059 | 598 | - |
| 20 | 1 835 | 1 940 | 1 973 | 1 967 | 1 902 | 1 757 | 1 512 | 1 146 | - |
| 30 | 2 234 | 2 317 | 2 381 | 2 432 | 2 450 | 2 416 | 2 309 | 2 108 | 1 347 |
| 40 | - | 2 800 | 2 857 | 2 929 | 2 995 | 3 035 | 3 029 | 2 956 | 2 532 |
| 50 | - | - | 3 481 | 3 536 | 3 613 | 3 691 | 3 750 | 3 769 | 3 609 |
| 60 | - | - | - | - | 4 384 | 4 463 | 4 550 | 4 624 | 4 655 |
| 65 | - | - | - | - | 4 852 | 4 917 | 5 005 | 5 093 | 5 192 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.50 | 2.37 | 2.26 | 2.06 | 1.77 | 1.34 | - | - | - |
| 15 | 3.01 | 2.96 | 2.92 | 2.85 | 2.69 | 2.44 | 2.06 | 1.53 | - |
| 20 | 3.24 | 3.20 | 3.20 | 3.17 | 3.08 | 2.90 | 2.61 | 2.18 | - |
| 30 | 3.74 | 3.69 | 3.72 | 3.75 | 3.76 | 3.71 | 3.58 | 3.34 | 2.41 |
| 40 | - | 4.27 | 4.30 | 4.37 | 4.44 | 4.49 | 4.48 | 4.39 | 3.86 |
| 50 | - | - | 5.08 | 5.15 | 5.25 | 5.36 | 5.45 | 5.48 | 5.28 |
| 60 | - | - | - | - | 6.32 | 6.46 | 6.61 | 6.73 | 6.80 |
| 65 | - | - | - | - | 7.00 | 7.14 | 7.30 | 7.46 | 7.64 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 76 | 118 | 144 | 174 | 208 | 248 | - | - | - |
| 15 | 74 | 115 | 141 | 171 | 206 | 245 | 291 | 342 | - |
| 20 | 72 | 114 | 140 | 170 | 204 | 244 | 289 | 340 | - |
| 30 | 69 | 111 | 136 | 166 | 200 | 240 | 285 | 336 | 457 |
| 40 | - | 107 | 133 | 162 | 196 | 235 | 280 | 330 | 451 |
| 50 | - | - | 128 | 158 | 192 | 230 | 275 | 325 | 445 |
| 60 | - | - | - | - | 186 | 225 | 269 | 318 | 437 |
| 65 | - | - | - | - | 183 | 222 | 265 | 315 | 434 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.39 | 5.32 | 6.97 | 9.71 | 15.18 | 31.61 | - | - | - |
| 15 | 2.54 | 3.86 | 4.78 | 6.03 | 7.88 | 10.95 | 17.12 | 35.93 | - |
| 20 | 2.19 | 3.35 | 4.09 | 5.05 | 6.35 | 8.29 | 11.51 | 17.99 | - |
| 30 | 1.59 | 2.52 | 3.06 | 3.70 | 4.48 | 5.49 | 6.87 | 8.94 | 19.30 |
| 40 | - | 1.84 | 2.27 | 2.74 | 3.28 | 3.92 | 4.71 | 5.75 | 9.30 |
| 50 | - | - | 1.62 | 1.98 | 2.38 | 2.83 | 3.36 | 3.99 | 5.82 |
| 60 | - | - | - | - | 1.67 | 2.01 | 2.38 | 2.82 | 3.94 |
| 65 | - | - | - | - | 1.37 | 1.66 | 1.99 | 2.35 | 3.27 |

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

| | | |
|---|---|---|
| Cooling capacity | 12 825 | W |
| Power input | 4 113 | W |
| Current consumption | 5.97 | A |
| Mass flow | 293 | kg/h |
| C.O.P. | 3.12 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 60 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 4 897 | 7 691 | 9 507 | 11 641 | 14 124 | 16 986 | - | - | - |
| 15 | 4 378 | 7 000 | 8 689 | 10 671 | 12 974 | 15 630 | 18 668 | 22 118 | - |
| 20 | 4 119 | 6 647 | 8 270 | 10 171 | 12 381 | 14 929 | 17 845 | 21 160 | - |
| 30 | 3 601 | 5 924 | 7 405 | 9 137 | 11 150 | 13 475 | 16 140 | 19 175 | 26 475 |
| 40 | - | 5 172 | 6 499 | 8 050 | 9 855 | 11 943 | 14 343 | 17 085 | 23 710 |
| 50 | - | 4 379 | 5 539 | 6 896 | 8 478 | 10 315 | 12 434 | 14 865 | 20 777 |
| 60 | - | - | - | 5 636 | 6 973 | 8 533 | 10 344 | 12 434 | 17 562 |
| 65 | - | - | - | - | 6 122 | 7 524 | 9 158 | 11 052 | 15 725 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 540 | 1 542 | 1 457 | 1 286 | 1 006 | 596 | - | - | - |
| 15 | 1 842 | 1 942 | 1 949 | 1 899 | 1 770 | 1 540 | 1 187 | 690 | - |
| 20 | 2 012 | 2 131 | 2 170 | 2 165 | 2 096 | 1 941 | 1 678 | 1 285 | - |
| 30 | 2 443 | 2 541 | 2 612 | 2 670 | 2 692 | 2 656 | 2 542 | 2 327 | 1 509 |
| 40 | - | 3 063 | 3 128 | 3 207 | 3 281 | 3 325 | 3 321 | 3 244 | 2 790 |
| 50 | - | 3 782 | 3 800 | 3 863 | 3 947 | 4 033 | 4 098 | 4 120 | 3 950 |
| 60 | - | - | - | 4 721 | 4 777 | 4 864 | 4 958 | 5 040 | 5 075 |
| 65 | - | - | - | - | 5 280 | 5 352 | 5 447 | 5 543 | 5 651 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.68 | 2.56 | 2.43 | 2.22 | 1.90 | 1.43 | - | - | - |
| 15 | 3.22 | 3.19 | 3.16 | 3.08 | 2.92 | 2.64 | 2.23 | 1.65 | - |
| 20 | 3.46 | 3.46 | 3.47 | 3.43 | 3.34 | 3.15 | 2.83 | 2.37 | - |
| 30 | 4.01 | 3.99 | 4.03 | 4.08 | 4.09 | 4.04 | 3.89 | 3.63 | 2.63 |
| 40 | - | 4.62 | 4.67 | 4.75 | 4.83 | 4.88 | 4.88 | 4.78 | 4.22 |
| 50 | - | 5.49 | 5.51 | 5.59 | 5.70 | 5.82 | 5.92 | 5.95 | 5.75 |
| 60 | - | - | - | 6.73 | 6.85 | 7.00 | 7.15 | 7.29 | 7.38 |
| 65 | - | - | - | - | 7.56 | 7.71 | 7.89 | 8.06 | 8.26 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 83 | 129 | 158 | 191 | 229 | 273 | - | - | - |
| 15 | 81 | 127 | 155 | 188 | 226 | 269 | 319 | 376 | - |
| 20 | 79 | 125 | 153 | 186 | 224 | 268 | 317 | 374 | - |
| 30 | 76 | 122 | 150 | 183 | 220 | 264 | 313 | 369 | 503 |
| 40 | - | 118 | 146 | 179 | 216 | 259 | 308 | 364 | 497 |
| 50 | - | 114 | 142 | 174 | 211 | 254 | 303 | 358 | 490 |
| 60 | - | - | - | 169 | 206 | 248 | 297 | 351 | 483 |
| 65 | - | - | - | - | 203 | 245 | 293 | 348 | 479 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.18 | 4.99 | 6.52 | 9.05 | 14.04 | 28.48 | - | - | - |
| 15 | 2.38 | 3.60 | 4.46 | 5.62 | 7.33 | 10.15 | 15.73 | 32.04 | - |
| 20 | 2.05 | 3.12 | 3.81 | 4.70 | 5.91 | 7.69 | 10.64 | 16.47 | - |
| 30 | 1.47 | 2.33 | 2.83 | 3.42 | 4.14 | 5.07 | 6.35 | 8.24 | 17.54 |
| 40 | - | 1.69 | 2.08 | 2.51 | 3.00 | 3.59 | 4.32 | 5.27 | 8.50 |
| 50 | - | 1.16 | 1.46 | 1.79 | 2.15 | 2.56 | 3.03 | 3.61 | 5.26 |
| 60 | - | - | - | 1.19 | 1.46 | 1.75 | 2.09 | 2.47 | 3.46 |
| 65 | - | - | - | - | 1.16 | 1.41 | 1.68 | 1.99 | 2.78 |

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

| | | |
|---|---|---|
| Cooling capacity | 12 434 | W |
| Power input | 4 098 | W |
| Current consumption | 5.92 | A |
| Mass flow | 303 | kg/h |
| C.O.P. | 3.03 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | | |
|---|---|---|
| Sound power level | 77 | dB(A) |
| With accoustic hood | 0 | dB(A) |

Tolerance according EN12900

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## Performance data at 60 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 5 182 | 8 127 | 10 038 | 12 284 | 14 896 | 17 904 | - | - | - |
| 15 | 4 664 | 7 446 | 9 236 | 11 334 | 13 771 | 16 579 | 19 789 | 23 431 | - |
| 20 | 4 407 | 7 099 | 8 825 | 10 845 | 13 192 | 15 896 | 18 988 | 22 500 | - |
| 30 | 3 893 | 6 391 | 7 980 | 9 838 | 11 995 | 14 482 | 17 332 | 20 576 | 28 369 |
| 40 | - | 5 658 | 7 100 | 8 785 | 10 742 | 13 004 | 15 602 | 18 566 | 25 722 |
| 50 | - | 4 894 | 6 180 | 7 681 | 9 429 | 11 455 | 13 790 | 16 466 | 22 964 |
| 60 | - | - | - | 6 522 | 8 050 | 9 829 | 11 892 | 14 269 | 20 090 |
| 65 | - | - | - | - | 7 334 | 8 986 | 10 909 | 13 132 | 18 607 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 540 | 1 542 | 1 457 | 1 286 | 1 006 | 596 | - | - | - |
| 15 | 1 842 | 1 942 | 1 949 | 1 899 | 1 770 | 1 540 | 1 187 | 690 | - |
| 20 | 2 012 | 2 131 | 2 170 | 2 165 | 2 096 | 1 941 | 1 678 | 1 285 | - |
| 30 | 2 443 | 2 541 | 2 612 | 2 670 | 2 692 | 2 656 | 2 542 | 2 327 | 1 509 |
| 40 | - | 3 063 | 3 128 | 3 207 | 3 281 | 3 325 | 3 321 | 3 244 | 2 790 |
| 50 | - | 3 782 | 3 800 | 3 863 | 3 947 | 4 033 | 4 098 | 4 120 | 3 950 |
| 60 | - | - | - | 4 721 | 4 777 | 4 864 | 4 958 | 5 040 | 5 075 |
| 65 | - | - | - | - | 5 280 | 5 352 | 5 447 | 5 543 | 5 651 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.68 | 2.56 | 2.43 | 2.22 | 1.90 | 1.43 | - | - | - |
| 15 | 3.22 | 3.19 | 3.16 | 3.08 | 2.92 | 2.64 | 2.23 | 1.65 | - |
| 20 | 3.46 | 3.46 | 3.47 | 3.43 | 3.34 | 3.15 | 2.83 | 2.37 | - |
| 30 | 4.01 | 3.99 | 4.03 | 4.08 | 4.09 | 4.04 | 3.89 | 3.63 | 2.63 |
| 40 | - | 4.62 | 4.67 | 4.75 | 4.83 | 4.88 | 4.88 | 4.78 | 4.22 |
| 50 | - | 5.49 | 5.51 | 5.59 | 5.70 | 5.82 | 5.92 | 5.95 | 5.75 |
| 60 | - | - | - | 6.73 | 6.85 | 7.00 | 7.15 | 7.29 | 7.38 |
| 65 | - | - | - | - | 7.56 | 7.71 | 7.89 | 8.06 | 8.26 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 83 | 128 | 157 | 190 | 227 | 271 | - | - | - |
| 15 | 80 | 126 | 154 | 187 | 224 | 268 | 317 | 373 | - |
| 20 | 79 | 124 | 152 | 185 | 223 | 266 | 315 | 371 | - |
| 30 | 76 | 121 | 149 | 182 | 219 | 262 | 311 | 366 | 499 |
| 40 | - | 117 | 145 | 178 | 215 | 257 | 306 | 361 | 493 |
| 50 | - | 113 | 141 | 173 | 210 | 252 | 301 | 355 | 486 |
| 60 | - | - | - | 168 | 205 | 247 | 294 | 349 | 479 |
| 65 | - | - | - | - | 202 | 244 | 291 | 345 | 475 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.37 | 5.27 | 6.89 | 9.55 | 14.81 | 30.02 | - | - | - |
| 15 | 2.53 | 3.83 | 4.74 | 5.97 | 7.78 | 10.77 | 16.67 | 33.94 | - |
| 20 | 2.19 | 3.33 | 4.07 | 5.01 | 6.29 | 8.19 | 11.32 | 17.51 | - |
| 30 | 1.59 | 2.52 | 3.05 | 3.68 | 4.46 | 5.45 | 6.82 | 8.84 | 18.80 |
| 40 | - | 1.85 | 2.27 | 2.74 | 3.27 | 3.91 | 4.70 | 5.72 | 9.22 |
| 50 | - | 1.29 | 1.63 | 1.99 | 2.39 | 2.84 | 3.37 | 4.00 | 5.81 |
| 60 | - | - | - | 1.38 | 1.69 | 2.02 | 2.40 | 2.83 | 3.96 |
| 65 | - | - | - | - | 1.39 | 1.68 | 2.00 | 2.37 | 3.29 |

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

| | | |
|---|---|---|
| Cooling capacity | 14 043 | W |
| Power input | 4 490 | W |
| Current consumption | 6.47 | A |
| Mass flow | 321 | kg/h |
| C.O.P. | 3.13 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | | |
|---|---|---|
| Sound power level | 77 | dB(A) |
| With accoustic hood | 0 | dB(A) |

Tolerance according EN12900

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## Performance data at 65 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 5 312 | 8 335 | 10 299 | 12 607 | 15 294 | 18 390 | - | - | - |
| 15 | 4 753 | 7 591 | 9 419 | 11 563 | 14 055 | 16 929 | 20 215 | 23 949 | - |
| 20 | 4 475 | 7 212 | 8 968 | 11 025 | 13 416 | 16 174 | 19 330 | 22 917 | - |
| 30 | 3 918 | 6 435 | 8 039 | 9 914 | 12 094 | 14 610 | 17 495 | 20 781 | 28 683 |
| 40 | - | 5 626 | 7 064 | 8 746 | 10 701 | 12 963 | 15 563 | 18 532 | 25 708 |
| 50 | - | 4 771 | 6 030 | 7 503 | 9 219 | 11 210 | 13 507 | 16 143 | 22 550 |
| 60 | - | - | - | 6 141 | 7 594 | 9 288 | 11 254 | 13 522 | 19 084 |
| 65 | - | - | - | - | 6 673 | 8 197 | 9 972 | 12 029 | 17 101 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 685 | 1 693 | 1 603 | 1 421 | 1 123 | 686 | - | - | - |
| 15 | 2 011 | 2 126 | 2 136 | 2 083 | 1 946 | 1 701 | 1 326 | 798 | - |
| 20 | 2 194 | 2 331 | 2 374 | 2 371 | 2 299 | 2 134 | 1 854 | 1 436 | - |
| 30 | 2 655 | 2 772 | 2 852 | 2 916 | 2 941 | 2 904 | 2 783 | 2 555 | 1 685 |
| 40 | - | 3 332 | 3 406 | 3 495 | 3 575 | 3 624 | 3 620 | 3 539 | 3 056 |
| 50 | - | 4 100 | 4 126 | 4 198 | 4 291 | 4 384 | 4 454 | 4 478 | 4 298 |
| 60 | - | - | - | 5 114 | 5 179 | 5 274 | 5 376 | 5 463 | 5 500 |
| 65 | - | - | - | - | 5 715 | 5 795 | 5 898 | 6 000 | 6 115 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.86 | 2.75 | 2.62 | 2.39 | 2.04 | 1.53 | - | - | - |
| 15 | 3.43 | 3.43 | 3.41 | 3.32 | 3.15 | 2.85 | 2.41 | 1.78 | - |
| 20 | 3.69 | 3.73 | 3.74 | 3.71 | 3.61 | 3.40 | 3.06 | 2.56 | - |
| 30 | 4.28 | 4.30 | 4.36 | 4.41 | 4.43 | 4.37 | 4.22 | 3.94 | 2.87 |
| 40 | - | 4.98 | 5.05 | 5.14 | 5.23 | 5.29 | 5.29 | 5.19 | 4.59 |
| 50 | - | 5.92 | 5.95 | 6.04 | 6.17 | 6.30 | 6.40 | 6.45 | 6.24 |
| 60 | - | - | - | 7.27 | 7.39 | 7.55 | 7.72 | 7.86 | 7.96 |
| 65 | - | - | - | - | 8.15 | 8.31 | 8.50 | 8.68 | 8.90 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 91 | 140 | 171 | 207 | 248 | 295 | - | - | - |
| 15 | 88 | 137 | 168 | 204 | 245 | 292 | 346 | 407 | - |
| 20 | 86 | 136 | 166 | 202 | 243 | 290 | 344 | 405 | - |
| 30 | 83 | 132 | 163 | 198 | 239 | 286 | 339 | 400 | 545 |
| 40 | - | 128 | 159 | 194 | 235 | 281 | 334 | 395 | 539 |
| 50 | - | 124 | 154 | 189 | 230 | 276 | 329 | 389 | 532 |
| 60 | - | - | - | 184 | 224 | 270 | 323 | 382 | 525 |
| 65 | - | - | - | - | 221 | 267 | 319 | 379 | 521 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.15 | 4.92 | 6.42 | 8.87 | 13.62 | 26.79 | - | - | - |
| 15 | 2.36 | 3.57 | 4.41 | 5.55 | 7.22 | 9.95 | 15.24 | 30.02 | - |
| 20 | 2.04 | 3.09 | 3.78 | 4.65 | 5.84 | 7.58 | 10.43 | 15.96 | - |
| 30 | 1.48 | 2.32 | 2.82 | 3.40 | 4.11 | 5.03 | 6.29 | 8.13 | 17.02 |
| 40 | - | 1.69 | 2.07 | 2.50 | 2.99 | 3.58 | 4.30 | 5.24 | 8.41 |
| 50 | - | 1.16 | 1.46 | 1.79 | 2.15 | 2.56 | 3.03 | 3.60 | 5.25 |
| 60 | - | - | - | 1.20 | 1.47 | 1.76 | 2.09 | 2.48 | 3.47 |
| 65 | - | - | - | - | 1.17 | 1.41 | 1.69 | 2.00 | 2.80 |

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

| | | |
|---|---|---|
| Cooling capacity | 13 507 | W |
| Power input | 4 454 | W |
| Current consumption | 6.40 | A |
| Mass flow | 329 | kg/h |
| C.O.P. | 3.03 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 65 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 5 620 | 8 807 | 10 875 | 13 304 | 16 129 | 19 384 | - | - | - |
| 15 | 5 064 | 8 074 | 10 011 | 12 281 | 14 918 | 17 956 | 21 429 | 25 371 | - |
| 20 | 4 788 | 7 702 | 9 570 | 11 756 | 14 295 | 17 221 | 20 567 | 24 368 | - |
| 30 | 4 236 | 6 942 | 8 663 | 10 674 | 13 009 | 15 703 | 18 788 | 22 299 | 30 735 |
| 40 | - | 6 155 | 7 718 | 9 543 | 11 664 | 14 114 | 16 928 | 20 139 | 27 889 |
| 50 | - | 5 332 | 6 728 | 8 356 | 10 252 | 12 449 | 14 980 | 17 881 | 24 924 |
| 60 | - | - | - | 7 106 | 8 766 | 10 699 | 12 938 | 15 517 | 21 832 |
| 65 | - | - | - | - | 7 993 | 9 790 | 11 879 | 14 293 | 20 236 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 685 | 1 693 | 1 603 | 1 421 | 1 123 | 686 | - | - | - |
| 15 | 2 011 | 2 126 | 2 136 | 2 083 | 1 946 | 1 701 | 1 326 | 798 | - |
| 20 | 2 194 | 2 331 | 2 374 | 2 371 | 2 299 | 2 134 | 1 854 | 1 436 | - |
| 30 | 2 655 | 2 772 | 2 852 | 2 916 | 2 941 | 2 904 | 2 783 | 2 555 | 1 685 |
| 40 | - | 3 332 | 3 406 | 3 495 | 3 575 | 3 624 | 3 620 | 3 539 | 3 056 |
| 50 | - | 4 100 | 4 126 | 4 198 | 4 291 | 4 384 | 4 454 | 4 478 | 4 298 |
| 60 | - | - | - | 5 114 | 5 179 | 5 274 | 5 376 | 5 463 | 5 500 |
| 65 | - | - | - | - | 5 715 | 5 795 | 5 898 | 6 000 | 6 115 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 2.86 | 2.75 | 2.62 | 2.39 | 2.04 | 1.53 | - | - | - |
| 15 | 3.43 | 3.43 | 3.41 | 3.32 | 3.15 | 2.85 | 2.41 | 1.78 | - |
| 20 | 3.69 | 3.73 | 3.74 | 3.71 | 3.61 | 3.40 | 3.06 | 2.56 | - |
| 30 | 4.28 | 4.30 | 4.36 | 4.41 | 4.43 | 4.37 | 4.22 | 3.94 | 2.87 |
| 40 | - | 4.98 | 5.05 | 5.14 | 5.23 | 5.29 | 5.29 | 5.19 | 4.59 |
| 50 | - | 5.92 | 5.95 | 6.04 | 6.17 | 6.30 | 6.40 | 6.45 | 6.24 |
| 60 | - | - | - | 7.27 | 7.39 | 7.55 | 7.72 | 7.86 | 7.96 |
| 65 | - | - | - | - | 8.15 | 8.31 | 8.50 | 8.68 | 8.90 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 90 | 139 | 170 | 205 | 246 | 293 | - | - | - |
| 15 | 87 | 136 | 167 | 202 | 243 | 290 | 343 | 404 | - |
| 20 | 86 | 135 | 165 | 201 | 241 | 288 | 341 | 402 | - |
| 30 | 83 | 132 | 162 | 197 | 238 | 284 | 337 | 397 | 541 |
| 40 | - | 128 | 158 | 193 | 233 | 279 | 332 | 392 | 535 |
| 50 | - | 123 | 154 | 188 | 228 | 274 | 326 | 386 | 528 |
| 60 | - | - | - | 183 | 223 | 268 | 320 | 379 | 520 |
| 65 | - | - | - | - | 220 | 265 | 317 | 376 | 517 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.33 | 5.20 | 6.78 | 9.37 | 14.37 | 28.24 | - | - | - |
| 15 | 2.52 | 3.80 | 4.69 | 5.90 | 7.67 | 10.55 | 16.16 | 31.80 | - |
| 20 | 2.18 | 3.30 | 4.03 | 4.96 | 6.22 | 8.07 | 11.10 | 16.97 | - |
| 30 | 1.60 | 2.50 | 3.04 | 3.66 | 4.42 | 5.41 | 6.75 | 8.73 | 18.24 |
| 40 | - | 1.85 | 2.27 | 2.73 | 3.26 | 3.89 | 4.68 | 5.69 | 9.13 |
| 50 | - | 1.30 | 1.63 | 1.99 | 2.39 | 2.84 | 3.36 | 3.99 | 5.80 |
| 60 | - | - | - | 1.39 | 1.69 | 2.03 | 2.41 | 2.84 | 3.97 |
| 65 | - | - | - | - | 1.40 | 1.69 | 2.01 | 2.38 | 3.31 |

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

| | | |
|---|---|---|
| Cooling capacity | 15 263 | W |
| Power input | 4 874 | W |
| Current consumption | 7.00 | A |
| Mass flow | 349 | kg/h |
| C.O.P. | 3.13 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 70 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 5 725 | 8 976 | 11 086 | 13 567 | 16 454 | 19 782 | - | - | - |
| 15 | 5 127 | 8 180 | 10 146 | 12 451 | 15 131 | 18 220 | 21 753 | 25 766 | - |
| 20 | 4 830 | 7 776 | 9 664 | 11 877 | 14 448 | 17 413 | 20 807 | 24 664 | - |
| 30 | 4 233 | 6 946 | 8 672 | 10 690 | 13 036 | 15 743 | 18 847 | 22 381 | 30 882 |
| 40 | - | 6 079 | 7 629 | 9 440 | 11 547 | 13 983 | 16 782 | 19 978 | 27 702 |
| 50 | - | 5 159 | 6 519 | 8 108 | 9 959 | 12 106 | 14 582 | 17 421 | 24 323 |
| 60 | - | - | - | 6 644 | 8 213 | 10 043 | 12 165 | 14 612 | 20 610 |
| 65 | - | - | - | - | 7 221 | 8 869 | 10 787 | 13 008 | 18 481 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 838 | 1 851 | 1 756 | 1 564 | 1 249 | 789 | - | - | - |
| 15 | 2 187 | 2 317 | 2 330 | 2 275 | 2 130 | 1 872 | 1 476 | 920 | - |
| 20 | 2 382 | 2 538 | 2 587 | 2 585 | 2 508 | 2 334 | 2 039 | 1 599 | - |
| 30 | 2 870 | 3 012 | 3 101 | 3 171 | 3 198 | 3 160 | 3 032 | 2 791 | 1 875 |
| 40 | - | 3 608 | 3 693 | 3 791 | 3 879 | 3 932 | 3 927 | 3 841 | 3 331 |
| 50 | - | 4 421 | 4 459 | 4 541 | 4 644 | 4 744 | 4 819 | 4 844 | 4 651 |
| 60 | - | - | - | 5 514 | 5 589 | 5 692 | 5 802 | 5 894 | 5 930 |
| 65 | - | - | - | - | 6 157 | 6 247 | 6 357 | 6 466 | 6 584 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.04 | 2.95 | 2.82 | 2.57 | 2.19 | 1.64 | - | - | - |
| 15 | 3.64 | 3.68 | 3.66 | 3.58 | 3.39 | 3.07 | 2.59 | 1.91 | - |
| 20 | 3.92 | 4.00 | 4.02 | 4.00 | 3.89 | 3.67 | 3.30 | 2.76 | - |
| 30 | 4.55 | 4.62 | 4.70 | 4.76 | 4.78 | 4.73 | 4.56 | 4.26 | 3.12 |
| 40 | - | 5.36 | 5.44 | 5.55 | 5.65 | 5.72 | 5.72 | 5.61 | 4.97 |
| 50 | - | 6.36 | 6.41 | 6.52 | 6.66 | 6.80 | 6.91 | 6.96 | 6.73 |
| 60 | - | - | - | 7.82 | 7.96 | 8.13 | 8.31 | 8.46 | 8.56 |
| 65 | - | - | - | - | 8.76 | 8.93 | 9.12 | 9.31 | 9.54 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 98 | 151 | 184 | 222 | 267 | 318 | - | - | - |
| 15 | 95 | 148 | 181 | 219 | 263 | 314 | 372 | 438 | - |
| 20 | 93 | 146 | 179 | 218 | 262 | 312 | 370 | 435 | - |
| 30 | 90 | 143 | 176 | 214 | 258 | 308 | 365 | 431 | 587 |
| 40 | - | 139 | 172 | 210 | 253 | 303 | 360 | 425 | 581 |
| 50 | - | 134 | 167 | 205 | 248 | 298 | 355 | 419 | 574 |
| 60 | - | - | - | 199 | 243 | 292 | 349 | 413 | 567 |
| 65 | - | - | - | - | 239 | 289 | 345 | 409 | 563 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.12 | 4.85 | 6.31 | 8.68 | 13.17 | 25.07 | - | - | - |
| 15 | 2.34 | 3.53 | 4.36 | 5.47 | 7.10 | 9.73 | 14.73 | 28.00 | - |
| 20 | 2.03 | 3.06 | 3.74 | 4.60 | 5.76 | 7.46 | 10.21 | 15.43 | - |
| 30 | 1.47 | 2.31 | 2.80 | 3.37 | 4.08 | 4.98 | 6.22 | 8.02 | 16.47 |
| 40 | - | 1.68 | 2.07 | 2.49 | 2.98 | 3.56 | 4.27 | 5.20 | 8.32 |
| 50 | - | 1.17 | 1.46 | 1.79 | 2.14 | 2.55 | 3.03 | 3.60 | 5.23 |
| 60 | - | - | - | 1.20 | 1.47 | 1.76 | 2.10 | 2.48 | 3.48 |
| 65 | - | - | - | - | 1.17 | 1.42 | 1.70 | 2.01 | 2.81 |

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

| | | |
|---|---|---|
| Cooling capacity | 14 582 | W |
| Power input | 4 819 | W |
| Current consumption | 6.91 | A |
| Mass flow | 355 | kg/h |
| C.O.P. | 3.03 | |

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 70 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 6 057 | 9 483 | 11 706 | 14 317 | 17 353 | 20 850 | - | - | - |
| 15 | 5 463 | 8 701 | 10 784 | 13 225 | 16 060 | 19 326 | 23 059 | 27 296 | - |
| 20 | 5 168 | 8 304 | 10 313 | 12 665 | 15 395 | 18 541 | 22 139 | 26 225 | - |
| 30 | 4 577 | 7 493 | 9 345 | 11 510 | 14 023 | 16 921 | 20 240 | 24 017 | 33 091 |
| 40 | - | 6 650 | 8 335 | 10 302 | 12 586 | 15 224 | 18 254 | 21 710 | 30 052 |
| 50 | - | 5 766 | 7 273 | 9 031 | 11 075 | 13 443 | 16 172 | 19 297 | 26 884 |
| 60 | - | - | - | 7 688 | 9 481 | 11 568 | 13 985 | 16 767 | 23 577 |
| 65 | - | - | - | - | 8 650 | 10 593 | 12 849 | 15 456 | 21 869 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 838 | 1 851 | 1 756 | 1 564 | 1 249 | 789 | - | - | - |
| 15 | 2 187 | 2 317 | 2 330 | 2 275 | 2 130 | 1 872 | 1 476 | 920 | - |
| 20 | 2 382 | 2 538 | 2 587 | 2 585 | 2 508 | 2 334 | 2 039 | 1 599 | - |
| 30 | 2 870 | 3 012 | 3 101 | 3 171 | 3 198 | 3 160 | 3 032 | 2 791 | 1 875 |
| 40 | - | 3 608 | 3 693 | 3 791 | 3 879 | 3 932 | 3 927 | 3 841 | 3 331 |
| 50 | - | 4 421 | 4 459 | 4 541 | 4 644 | 4 744 | 4 819 | 4 844 | 4 651 |
| 60 | - | - | - | 5 514 | 5 589 | 5 692 | 5 802 | 5 894 | 5 930 |
| 65 | - | - | - | - | 6 157 | 6 247 | 6 357 | 6 466 | 6 584 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.04 | 2.95 | 2.82 | 2.57 | 2.19 | 1.64 | - | - | - |
| 15 | 3.64 | 3.68 | 3.66 | 3.58 | 3.39 | 3.07 | 2.59 | 1.91 | - |
| 20 | 3.92 | 4.00 | 4.02 | 4.00 | 3.89 | 3.67 | 3.30 | 2.76 | - |
| 30 | 4.55 | 4.62 | 4.70 | 4.76 | 4.78 | 4.73 | 4.56 | 4.26 | 3.12 |
| 40 | - | 5.36 | 5.44 | 5.55 | 5.65 | 5.72 | 5.72 | 5.61 | 4.97 |
| 50 | - | 6.36 | 6.41 | 6.52 | 6.66 | 6.80 | 6.91 | 6.96 | 6.73 |
| 60 | - | - | - | 7.82 | 7.96 | 8.13 | 8.31 | 8.46 | 8.56 |
| 65 | - | - | - | - | 8.76 | 8.93 | 9.12 | 9.31 | 9.54 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 97 | 150 | 183 | 221 | 265 | 316 | - | - | - |
| 15 | 94 | 147 | 180 | 218 | 262 | 312 | 369 | 435 | - |
| 20 | 93 | 145 | 178 | 216 | 260 | 310 | 367 | 432 | - |
| 30 | 89 | 142 | 175 | 212 | 256 | 306 | 363 | 428 | 582 |
| 40 | - | 138 | 171 | 208 | 252 | 301 | 358 | 422 | 576 |
| 50 | - | 133 | 166 | 204 | 247 | 296 | 352 | 416 | 569 |
| 60 | - | - | - | 198 | 241 | 290 | 346 | 410 | 562 |
| 65 | - | - | - | - | 238 | 287 | 343 | 406 | 558 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.30 | 5.12 | 6.66 | 9.16 | 13.89 | 26.42 | - | - | - |
| 15 | 2.50 | 3.75 | 4.63 | 5.81 | 7.54 | 10.32 | 15.62 | 29.66 | - |
| 20 | 2.17 | 3.27 | 3.99 | 4.90 | 6.14 | 7.94 | 10.86 | 16.40 | - |
| 30 | 1.59 | 2.49 | 3.01 | 3.63 | 4.38 | 5.36 | 6.68 | 8.61 | 17.64 |
| 40 | - | 1.84 | 2.26 | 2.72 | 3.24 | 3.87 | 4.65 | 5.65 | 9.02 |
| 50 | - | 1.30 | 1.63 | 1.99 | 2.38 | 2.83 | 3.36 | 3.98 | 5.78 |
| 60 | - | - | - | 1.39 | 1.70 | 2.03 | 2.41 | 2.84 | 3.98 |
| 65 | - | - | - | - | 1.40 | 1.70 | 2.02 | 2.39 | 3.32 |

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

| | | |
|---|---|---|
| Cooling capacity | 16 483 | W |
| Power input | 5 267 | W |
| Current consumption | 7.54 | A |
| Mass flow | 377 | kg/h |
| C.O.P. | 3.13 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 75 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 6 137 | 9 613 | 11 869 | 14 520 | 17 605 | 21 160 | - | - | - |
| 15 | 5 501 | 8 768 | 10 871 | 13 336 | 16 201 | 19 503 | 23 280 | 27 570 | - |
| 20 | 5 184 | 8 338 | 10 360 | 12 727 | 15 477 | 18 648 | 22 276 | 26 401 | - |
| 30 | 4 547 | 7 455 | 9 304 | 11 466 | 13 977 | 16 874 | 20 195 | 23 977 | 33 071 |
| 40 | - | 6 529 | 8 193 | 10 135 | 12 392 | 15 002 | 18 000 | 21 423 | 29 691 |
| 50 | - | 5 544 | 7 006 | 8 712 | 10 698 | 13 001 | 15 657 | 18 700 | 26 095 |
| 60 | - | - | - | 7 143 | 8 831 | 10 797 | 13 076 | 15 703 | 22 137 |
| 65 | - | - | - | - | 7 767 | 9 540 | 11 602 | 13 987 | 19 863 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 997 | 2 016 | 1 917 | 1 715 | 1 385 | 905 | - | - | - |
| 15 | 2 369 | 2 516 | 2 531 | 2 474 | 2 322 | 2 051 | 1 638 | 1 058 | - |
| 20 | 2 575 | 2 753 | 2 807 | 2 806 | 2 726 | 2 543 | 2 233 | 1 774 | - |
| 30 | 3 088 | 3 258 | 3 357 | 3 434 | 3 463 | 3 423 | 3 288 | 3 035 | 2 079 |
| 40 | - | 3 890 | 3 988 | 4 097 | 4 191 | 4 247 | 4 241 | 4 150 | 3 614 |
| 50 | - | 4 745 | 4 798 | 4 893 | 5 006 | 5 114 | 5 192 | 5 217 | 5 011 |
| 60 | - | - | - | 5 920 | 6 007 | 6 121 | 6 237 | 6 333 | 6 366 |
| 65 | - | - | - | - | 6 608 | 6 707 | 6 826 | 6 940 | 7 059 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.22 | 3.16 | 3.02 | 2.76 | 2.35 | 1.75 | - | - | - |
| 15 | 3.85 | 3.94 | 3.93 | 3.84 | 3.64 | 3.30 | 2.78 | 2.05 | - |
| 20 | 4.15 | 4.28 | 4.31 | 4.29 | 4.18 | 3.95 | 3.55 | 2.98 | - |
| 30 | 4.83 | 4.95 | 5.05 | 5.12 | 5.15 | 5.09 | 4.92 | 4.60 | 3.38 |
| 40 | - | 5.75 | 5.85 | 5.98 | 6.10 | 6.17 | 6.16 | 6.05 | 5.37 |
| 50 | - | 6.82 | 6.89 | 7.02 | 7.18 | 7.33 | 7.44 | 7.49 | 7.24 |
| 60 | - | - | - | 8.40 | 8.55 | 8.73 | 8.91 | 9.07 | 9.17 |
| 65 | - | - | - | - | 9.39 | 9.57 | 9.77 | 9.96 | 10.19 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 105 | 161 | 197 | 238 | 285 | 340 | - | - | - |
| 15 | 102 | 158 | 194 | 235 | 282 | 336 | 398 | 468 | - |
| 20 | 100 | 157 | 192 | 233 | 280 | 334 | 396 | 466 | - |
| 30 | 96 | 153 | 189 | 229 | 276 | 330 | 392 | 461 | 629 |
| 40 | - | 149 | 184 | 225 | 272 | 325 | 387 | 456 | 622 |
| 50 | - | 144 | 179 | 220 | 267 | 320 | 381 | 450 | 616 |
| 60 | - | - | - | 214 | 261 | 314 | 375 | 444 | 609 |
| 65 | - | - | - | - | 258 | 311 | 371 | 440 | 605 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.07 | 4.77 | 6.19 | 8.47 | 12.71 | 23.39 | - | - | - |
| 15 | 2.32 | 3.48 | 4.30 | 5.39 | 6.98 | 9.51 | 14.21 | 26.07 | - |
| 20 | 2.01 | 3.03 | 3.69 | 4.54 | 5.68 | 7.33 | 9.97 | 14.89 | - |
| 30 | 1.47 | 2.29 | 2.77 | 3.34 | 4.04 | 4.93 | 6.14 | 7.90 | 15.91 |
| 40 | - | 1.68 | 2.05 | 2.47 | 2.96 | 3.53 | 4.24 | 5.16 | 8.21 |
| 50 | - | 1.17 | 1.46 | 1.78 | 2.14 | 2.54 | 3.02 | 3.58 | 5.21 |
| 60 | - | - | - | 1.21 | 1.47 | 1.76 | 2.10 | 2.48 | 3.48 |
| 65 | - | - | - | - | 1.18 | 1.42 | 1.70 | 2.02 | 2.81 |

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

| | | |
|---|---|---|
| Cooling capacity | 15 657 | W |
| Power input | 5 192 | W |
| Current consumption | 7.44 | A |
| Mass flow | 381 | kg/h |
| C.O.P. | 3.02 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 75 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 6 493 | 10 157 | 12 532 | 15 323 | 18 567 | 22 303 | - | - | - |
| 15 | 5 861 | 9 327 | 11 555 | 14 165 | 17 196 | 20 687 | 24 678 | 29 207 | - |
| 20 | 5 547 | 8 905 | 11 055 | 13 571 | 16 491 | 19 855 | 23 702 | 28 072 | - |
| 30 | 4 916 | 8 042 | 10 027 | 12 345 | 15 035 | 18 136 | 21 688 | 25 729 | 35 437 |
| 40 | - | 7 143 | 8 951 | 11 059 | 13 507 | 16 334 | 19 579 | 23 280 | 32 210 |
| 50 | - | 6 196 | 7 816 | 9 703 | 11 898 | 14 438 | 17 364 | 20 714 | 28 843 |
| 60 | - | - | - | 8 265 | 10 195 | 12 437 | 15 033 | 18 019 | 25 324 |
| 65 | - | - | - | - | 9 304 | 11 394 | 13 819 | 16 620 | 23 505 |
| **Power input in W** | | | | | | | | | |
| 5 | 1 997 | 2 016 | 1 917 | 1 715 | 1 385 | 905 | - | - | - |
| 15 | 2 369 | 2 516 | 2 531 | 2 474 | 2 322 | 2 051 | 1 638 | 1 058 | - |
| 20 | 2 575 | 2 753 | 2 807 | 2 806 | 2 726 | 2 543 | 2 233 | 1 774 | - |
| 30 | 3 088 | 3 258 | 3 357 | 3 434 | 3 463 | 3 423 | 3 288 | 3 035 | 2 079 |
| 40 | - | 3 890 | 3 988 | 4 097 | 4 191 | 4 247 | 4 241 | 4 150 | 3 614 |
| 50 | - | 4 745 | 4 798 | 4 893 | 5 006 | 5 114 | 5 192 | 5 217 | 5 011 |
| 60 | - | - | - | 5 920 | 6 007 | 6 121 | 6 237 | 6 333 | 6 366 |
| 65 | - | - | - | - | 6 608 | 6 707 | 6 826 | 6 940 | 7 059 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.22 | 3.16 | 3.02 | 2.76 | 2.35 | 1.75 | - | - | - |
| 15 | 3.85 | 3.94 | 3.93 | 3.84 | 3.64 | 3.30 | 2.78 | 2.05 | - |
| 20 | 4.15 | 4.28 | 4.31 | 4.29 | 4.18 | 3.95 | 3.55 | 2.98 | - |
| 30 | 4.83 | 4.95 | 5.05 | 5.12 | 5.15 | 5.09 | 4.92 | 4.60 | 3.38 |
| 40 | - | 5.75 | 5.85 | 5.98 | 6.10 | 6.17 | 6.16 | 6.05 | 5.37 |
| 50 | - | 6.82 | 6.89 | 7.02 | 7.18 | 7.33 | 7.44 | 7.49 | 7.24 |
| 60 | - | - | - | 8.40 | 8.55 | 8.73 | 8.91 | 9.07 | 9.17 |
| 65 | - | - | - | - | 9.39 | 9.57 | 9.77 | 9.96 | 10.19 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 104 | 160 | 196 | 236 | 284 | 338 | - | - | - |
| 15 | 101 | 158 | 193 | 233 | 280 | 334 | 395 | 465 | - |
| 20 | 99 | 156 | 191 | 232 | 278 | 332 | 393 | 463 | - |
| 30 | 96 | 152 | 187 | 228 | 274 | 328 | 389 | 458 | 624 |
| 40 | - | 148 | 183 | 224 | 270 | 323 | 384 | 453 | 618 |
| 50 | - | 143 | 178 | 219 | 265 | 318 | 378 | 447 | 611 |
| 60 | - | - | - | 213 | 259 | 312 | 372 | 440 | 604 |
| 65 | - | - | - | - | 256 | 309 | 369 | 437 | 600 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.25 | 5.04 | 6.54 | 8.93 | 13.40 | 24.66 | - | - | - |
| 15 | 2.47 | 3.71 | 4.57 | 5.73 | 7.40 | 10.08 | 15.07 | 27.62 | - |
| 20 | 2.15 | 3.24 | 3.94 | 4.84 | 6.05 | 7.81 | 10.61 | 15.83 | - |
| 30 | 1.59 | 2.47 | 2.99 | 3.60 | 4.34 | 5.30 | 6.60 | 8.48 | 17.04 |
| 40 | - | 1.84 | 2.24 | 2.70 | 3.22 | 3.85 | 4.62 | 5.61 | 8.91 |
| 50 | - | 1.31 | 1.63 | 1.98 | 2.38 | 2.82 | 3.34 | 3.97 | 5.76 |
| 60 | - | - | - | 1.40 | 1.70 | 2.03 | 2.41 | 2.85 | 3.98 |
| 65 | - | - | - | - | 1.41 | 1.70 | 2.02 | 2.39 | 3.33 |

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

| | | |
|---|---|---|
| Cooling capacity | 17 705 | W |
| Power input | 5 668 | W |
| Current consumption | 8.11 | A |
| Mass flow | 405 | kg/h |
| C.O.P. | 3.12 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 80 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 6 548 | 10 247 | 12 647 | 15 466 | 18 746 | 22 527 | - | - | - |
| 15 | 5 874 | 9 355 | 11 593 | 14 217 | 17 266 | 20 779 | 24 798 | 29 361 | - |
| 20 | 5 537 | 8 900 | 11 053 | 13 574 | 16 502 | 19 877 | 23 738 | 28 127 | - |
| 30 | 4 858 | 7 963 | 9 936 | 12 240 | 14 916 | 18 003 | 21 540 | 25 567 | 35 250 |
| 40 | - | 6 979 | 8 755 | 10 829 | 13 237 | 16 021 | 19 217 | 22 866 | 31 676 |
| 50 | - | 5 925 | 7 490 | 9 315 | 11 438 | 13 898 | 16 732 | 19 980 | 27 868 |
| 60 | - | - | - | 7 640 | 9 447 | 11 551 | 13 988 | 16 795 | 23 667 |
| 65 | - | - | - | - | 8 311 | 10 210 | 12 417 | 14 969 | 21 249 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 164 | 2 188 | 2 085 | 1 875 | 1 532 | 1 033 | - | - | - |
| 15 | 2 558 | 2 723 | 2 740 | 2 681 | 2 522 | 2 240 | 1 811 | 1 210 | - |
| 20 | 2 774 | 2 975 | 3 035 | 3 034 | 2 951 | 2 760 | 2 438 | 1 961 | - |
| 30 | 3 308 | 3 513 | 3 622 | 3 705 | 3 737 | 3 693 | 3 552 | 3 288 | 2 296 |
| 40 | - | 4 178 | 4 292 | 4 411 | 4 512 | 4 571 | 4 563 | 4 466 | 3 906 |
| 50 | - | 5 071 | 5 143 | 5 253 | 5 377 | 5 492 | 5 573 | 5 596 | 5 376 |
| 60 | - | - | - | 6 332 | 6 434 | 6 558 | 6 681 | 6 780 | 6 806 |
| 65 | - | - | - | - | 7 065 | 7 177 | 7 304 | 7 423 | 7 538 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.41 | 3.38 | 3.23 | 2.96 | 2.51 | 1.88 | - | - | - |
| 15 | 4.07 | 4.20 | 4.20 | 4.11 | 3.90 | 3.53 | 2.98 | 2.20 | - |
| 20 | 4.38 | 4.56 | 4.62 | 4.60 | 4.48 | 4.23 | 3.81 | 3.19 | - |
| 30 | 5.10 | 5.29 | 5.41 | 5.50 | 5.53 | 5.47 | 5.29 | 4.94 | 3.64 |
| 40 | - | 6.15 | 6.28 | 6.43 | 6.55 | 6.63 | 6.63 | 6.50 | 5.77 |
| 50 | - | 7.30 | 7.39 | 7.54 | 7.71 | 7.87 | 7.99 | 8.04 | 7.77 |
| 60 | - | - | - | 8.99 | 9.16 | 9.35 | 9.54 | 9.70 | 9.79 |
| 65 | - | - | - | - | 10.04 | 10.23 | 10.44 | 10.63 | 10.86 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 112 | 172 | 210 | 253 | 304 | 362 | - | - | - |
| 15 | 109 | 169 | 207 | 250 | 301 | 358 | 424 | 499 | - |
| 20 | 107 | 167 | 205 | 249 | 299 | 356 | 422 | 497 | - |
| 30 | 103 | 164 | 201 | 245 | 295 | 352 | 418 | 492 | 670 |
| 40 | - | 159 | 197 | 240 | 290 | 348 | 413 | 487 | 664 |
| 50 | - | 154 | 192 | 235 | 285 | 342 | 407 | 481 | 658 |
| 60 | - | - | - | 229 | 279 | 336 | 401 | 475 | 651 |
| 65 | - | - | - | - | 276 | 333 | 397 | 471 | 647 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.03 | 4.68 | 6.06 | 8.25 | 12.24 | 21.82 | - | - | - |
| 15 | 2.30 | 3.44 | 4.23 | 5.30 | 6.85 | 9.28 | 13.70 | 24.27 | - |
| 20 | 2.00 | 2.99 | 3.64 | 4.47 | 5.59 | 7.20 | 9.74 | 14.35 | - |
| 30 | 1.47 | 2.27 | 2.74 | 3.30 | 3.99 | 4.87 | 6.06 | 7.78 | 15.35 |
| 40 | - | 1.67 | 2.04 | 2.45 | 2.93 | 3.51 | 4.21 | 5.12 | 8.11 |
| 50 | - | 1.17 | 1.46 | 1.77 | 2.13 | 2.53 | 3.00 | 3.57 | 5.18 |
| 60 | - | - | - | 1.21 | 1.47 | 1.76 | 2.09 | 2.48 | 3.48 |
| 65 | - | - | - | - | 1.18 | 1.42 | 1.70 | 2.02 | 2.82 |

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

| | | |
|---|---|---|
| Cooling capacity | 16 732 | W |
| Power input | 5 573 | W |
| Current consumption | 7.99 | A |
| Mass flow | 407 | kg/h |
| C.O.P. | 3.00 | |

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 80 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 6 928 | 10 827 | 13 354 | 16 321 | 19 770 | 23 744 | - | - | - |
| 15 | 6 258 | 9 951 | 12 323 | 15 101 | 18 326 | 22 041 | 26 287 | 31 105 | - |
| 20 | 5 924 | 9 505 | 11 795 | 14 474 | 17 583 | 21 164 | 25 258 | 29 908 | - |
| 30 | 5 253 | 8 591 | 10 708 | 13 179 | 16 045 | 19 349 | 23 132 | 27 436 | 37 772 |
| 40 | - | 7 634 | 9 566 | 11 817 | 14 429 | 17 444 | 20 903 | 24 848 | 34 364 |
| 50 | - | 6 622 | 8 356 | 10 375 | 12 720 | 15 434 | 18 557 | 22 132 | 30 803 |
| 60 | - | - | - | 8 840 | 10 906 | 13 306 | 16 081 | 19 273 | 27 075 |
| 65 | - | - | - | - | 9 956 | 12 194 | 14 790 | 17 787 | 25 144 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 164 | 2 188 | 2 085 | 1 875 | 1 532 | 1 033 | - | - | - |
| 15 | 2 558 | 2 723 | 2 740 | 2 681 | 2 522 | 2 240 | 1 811 | 1 210 | - |
| 20 | 2 774 | 2 975 | 3 035 | 3 034 | 2 951 | 2 760 | 2 438 | 1 961 | - |
| 30 | 3 308 | 3 513 | 3 622 | 3 705 | 3 737 | 3 693 | 3 552 | 3 288 | 2 296 |
| 40 | - | 4 178 | 4 292 | 4 411 | 4 512 | 4 571 | 4 563 | 4 466 | 3 906 |
| 50 | - | 5 071 | 5 143 | 5 253 | 5 377 | 5 492 | 5 573 | 5 596 | 5 376 |
| 60 | - | - | - | 6 332 | 6 434 | 6 558 | 6 681 | 6 780 | 6 806 |
| 65 | - | - | - | - | 7 065 | 7 177 | 7 304 | 7 423 | 7 538 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.41 | 3.38 | 3.23 | 2.96 | 2.51 | 1.88 | - | - | - |
| 15 | 4.07 | 4.20 | 4.20 | 4.11 | 3.90 | 3.53 | 2.98 | 2.20 | - |
| 20 | 4.38 | 4.56 | 4.62 | 4.60 | 4.48 | 4.23 | 3.81 | 3.19 | - |
| 30 | 5.10 | 5.29 | 5.41 | 5.50 | 5.53 | 5.47 | 5.29 | 4.94 | 3.64 |
| 40 | - | 6.15 | 6.28 | 6.43 | 6.55 | 6.63 | 6.63 | 6.50 | 5.77 |
| 50 | - | 7.30 | 7.39 | 7.54 | 7.71 | 7.87 | 7.99 | 8.04 | 7.77 |
| 60 | - | - | - | 8.99 | 9.16 | 9.35 | 9.54 | 9.70 | 9.79 |
| 65 | - | - | - | - | 10.04 | 10.23 | 10.44 | 10.63 | 10.86 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 111 | 171 | 209 | 252 | 302 | 359 | - | - | - |
| 15 | 108 | 168 | 205 | 249 | 299 | 356 | 421 | 495 | - |
| 20 | 106 | 166 | 204 | 247 | 297 | 354 | 419 | 493 | - |
| 30 | 102 | 163 | 200 | 243 | 293 | 350 | 415 | 488 | 665 |
| 40 | - | 158 | 196 | 239 | 288 | 345 | 410 | 483 | 659 |
| 50 | - | 153 | 191 | 234 | 283 | 340 | 404 | 478 | 653 |
| 60 | - | - | - | 228 | 277 | 334 | 398 | 471 | 645 |
| 65 | - | - | - | - | 274 | 330 | 395 | 468 | 642 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.20 | 4.95 | 6.40 | 8.71 | 12.91 | 22.99 | - | - | - |
| 15 | 2.45 | 3.65 | 4.50 | 5.63 | 7.27 | 9.84 | 14.52 | 25.71 | - |
| 20 | 2.14 | 3.19 | 3.89 | 4.77 | 5.96 | 7.67 | 10.36 | 15.26 | - |
| 30 | 1.59 | 2.45 | 2.96 | 3.56 | 4.29 | 5.24 | 6.51 | 8.35 | 16.45 |
| 40 | - | 1.83 | 2.23 | 2.68 | 3.20 | 3.82 | 4.58 | 5.56 | 8.80 |
| 50 | - | 1.31 | 1.62 | 1.97 | 2.37 | 2.81 | 3.33 | 3.95 | 5.73 |
| 60 | - | - | - | 1.40 | 1.70 | 2.03 | 2.41 | 2.84 | 3.98 |
| 65 | - | - | - | - | 1.41 | 1.70 | 2.02 | 2.40 | 3.34 |

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

| | | |
|---|---|---|
| Cooling capacity | 18 928 | W |
| Power input | 6 077 | W |
| Current consumption | 8.70 | A |
| Mass flow | 433 | kg/h |
| C.O.P. | 3.11 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 85 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 6 958 | 10 878 | 13 420 | 16 406 | 19 878 | 23 881 | - | - | - |
| 15 | 6 246 | 9 940 | 12 314 | 15 095 | 18 326 | 22 048 | 26 305 | 31 139 | - |
| 20 | 5 890 | 9 461 | 11 745 | 14 419 | 17 523 | 21 100 | 25 193 | 29 844 | - |
| 30 | 5 168 | 8 471 | 10 567 | 13 014 | 15 854 | 19 129 | 22 882 | 27 153 | 37 420 |
| 40 | - | 7 426 | 9 317 | 11 522 | 14 082 | 17 039 | 20 434 | 24 307 | 33 657 |
| 50 | - | 6 303 | 7 972 | 9 916 | 12 177 | 14 794 | 17 808 | 21 261 | 29 641 |
| 60 | - | - | - | 8 133 | 10 062 | 12 305 | 14 901 | 17 889 | 25 200 |
| 65 | - | - | - | - | 8 852 | 10 878 | 13 232 | 15 952 | 22 638 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 337 | 2 368 | 2 261 | 2 043 | 1 688 | 1 173 | - | - | - |
| 15 | 2 752 | 2 937 | 2 956 | 2 895 | 2 730 | 2 438 | 1 995 | 1 377 | - |
| 20 | 2 978 | 3 206 | 3 270 | 3 271 | 3 183 | 2 985 | 2 651 | 2 159 | - |
| 30 | 3 532 | 3 775 | 3 896 | 3 984 | 4 018 | 3 972 | 3 823 | 3 549 | 2 527 |
| 40 | - | 4 472 | 4 603 | 4 734 | 4 842 | 4 902 | 4 893 | 4 789 | 4 207 |
| 50 | - | 5 400 | 5 495 | 5 622 | 5 758 | 5 879 | 5 962 | 5 984 | 5 747 |
| 60 | - | - | - | 6 751 | 6 869 | 7 005 | 7 134 | 7 234 | 7 252 |
| 65 | - | - | - | - | 7 530 | 7 655 | 7 791 | 7 913 | 8 023 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.60 | 3.60 | 3.45 | 3.16 | 2.69 | 2.01 | - | - | - |
| 15 | 4.28 | 4.47 | 4.48 | 4.39 | 4.17 | 3.78 | 3.18 | 2.36 | - |
| 20 | 4.62 | 4.86 | 4.93 | 4.92 | 4.80 | 4.53 | 4.08 | 3.42 | - |
| 30 | 5.39 | 5.64 | 5.78 | 5.89 | 5.93 | 5.87 | 5.67 | 5.30 | 3.92 |
| 40 | - | 6.57 | 6.72 | 6.89 | 7.03 | 7.11 | 7.11 | 6.97 | 6.19 |
| 50 | - | 7.79 | 7.91 | 8.08 | 8.26 | 8.44 | 8.56 | 8.60 | 8.31 |
| 60 | - | - | - | 9.61 | 9.79 | 9.99 | 10.19 | 10.35 | 10.43 |
| 65 | - | - | - | - | 10.71 | 10.91 | 11.12 | 11.32 | 11.53 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 119 | 183 | 223 | 269 | 322 | 384 | - | - | - |
| 15 | 115 | 180 | 220 | 266 | 319 | 380 | 450 | 529 | - |
| 20 | 114 | 178 | 218 | 264 | 317 | 378 | 448 | 527 | - |
| 30 | 110 | 174 | 214 | 260 | 313 | 374 | 444 | 522 | 711 |
| 40 | - | 170 | 210 | 256 | 309 | 370 | 439 | 517 | 706 |
| 50 | - | 164 | 204 | 250 | 304 | 364 | 434 | 512 | 700 |
| 60 | - | - | - | 244 | 297 | 358 | 427 | 505 | 693 |
| 65 | - | - | - | - | 294 | 354 | 424 | 502 | 689 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 2.98 | 4.59 | 5.93 | 8.03 | 11.78 | 20.35 | - | - | - |
| 15 | 2.27 | 3.38 | 4.17 | 5.21 | 6.71 | 9.04 | 13.19 | 22.61 | - |
| 20 | 1.98 | 2.95 | 3.59 | 4.41 | 5.50 | 7.07 | 9.50 | 13.82 | - |
| 30 | 1.46 | 2.24 | 2.71 | 3.27 | 3.95 | 4.82 | 5.98 | 7.65 | 14.81 |
| 40 | - | 1.66 | 2.02 | 2.43 | 2.91 | 3.48 | 4.18 | 5.08 | 8.00 |
| 50 | - | 1.17 | 1.45 | 1.76 | 2.11 | 2.52 | 2.99 | 3.55 | 5.16 |
| 60 | - | - | - | 1.20 | 1.46 | 1.76 | 2.09 | 2.47 | 3.47 |
| 65 | - | - | - | - | 1.18 | 1.42 | 1.70 | 2.02 | 2.82 |

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

| | | |
|---|---|---|
| Cooling capacity | 17 808 | W |
| Power input | 5 962 | W |
| Current consumption | 8.56 | A |
| Mass flow | 434 | kg/h |
| C.O.P. | 2.99 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 85 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 7 362 | 11 494 | 14 170 | 17 312 | 20 964 | 25 171 | - | - | - |
| 15 | 6 654 | 10 573 | 13 089 | 16 033 | 19 451 | 23 387 | 27 885 | 32 988 | - |
| 20 | 6 301 | 10 104 | 12 534 | 15 375 | 18 671 | 22 467 | 26 806 | 31 733 | - |
| 30 | 5 588 | 9 139 | 11 388 | 14 012 | 17 054 | 20 560 | 24 573 | 29 137 | 40 097 |
| 40 | - | 8 124 | 10 180 | 12 573 | 15 350 | 18 553 | 22 226 | 26 415 | 36 513 |
| 50 | - | 7 045 | 8 894 | 11 045 | 13 542 | 16 429 | 19 750 | 23 550 | 32 762 |
| 60 | - | - | - | 9 411 | 11 616 | 14 174 | 17 130 | 20 529 | 28 828 |
| 65 | - | - | - | - | 10 604 | 12 993 | 15 762 | 18 954 | 26 788 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 337 | 2 368 | 2 261 | 2 043 | 1 688 | 1 173 | - | - | - |
| 15 | 2 752 | 2 937 | 2 956 | 2 895 | 2 730 | 2 438 | 1 995 | 1 377 | - |
| 20 | 2 978 | 3 206 | 3 270 | 3 271 | 3 183 | 2 985 | 2 651 | 2 159 | - |
| 30 | 3 532 | 3 775 | 3 896 | 3 984 | 4 018 | 3 972 | 3 823 | 3 549 | 2 527 |
| 40 | - | 4 472 | 4 603 | 4 734 | 4 842 | 4 902 | 4 893 | 4 789 | 4 207 |
| 50 | - | 5 400 | 5 495 | 5 622 | 5 758 | 5 879 | 5 962 | 5 984 | 5 747 |
| 60 | - | - | - | 6 751 | 6 869 | 7 005 | 7 134 | 7 234 | 7 252 |
| 65 | - | - | - | - | 7 530 | 7 655 | 7 791 | 7 913 | 8 023 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.60 | 3.60 | 3.45 | 3.16 | 2.69 | 2.01 | - | - | - |
| 15 | 4.28 | 4.47 | 4.48 | 4.39 | 4.17 | 3.78 | 3.18 | 2.36 | - |
| 20 | 4.62 | 4.86 | 4.93 | 4.92 | 4.80 | 4.53 | 4.08 | 3.42 | - |
| 30 | 5.39 | 5.64 | 5.78 | 5.89 | 5.93 | 5.87 | 5.67 | 5.30 | 3.92 |
| 40 | - | 6.57 | 6.72 | 6.89 | 7.03 | 7.11 | 7.11 | 6.97 | 6.19 |
| 50 | - | 7.79 | 7.91 | 8.08 | 8.26 | 8.44 | 8.56 | 8.60 | 8.31 |
| 60 | - | - | - | 9.61 | 9.79 | 9.99 | 10.19 | 10.35 | 10.43 |
| 65 | - | - | - | - | 10.71 | 10.91 | 11.12 | 11.32 | 11.53 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 118 | 182 | 221 | 267 | 320 | 381 | - | - | - |
| 15 | 115 | 179 | 218 | 264 | 317 | 378 | 447 | 525 | - |
| 20 | 113 | 177 | 217 | 262 | 315 | 376 | 445 | 523 | - |
| 30 | 109 | 173 | 213 | 259 | 311 | 372 | 441 | 519 | 705 |
| 40 | - | 169 | 208 | 254 | 307 | 367 | 436 | 514 | 700 |
| 50 | - | 163 | 203 | 249 | 302 | 362 | 431 | 508 | 694 |
| 60 | - | - | - | 242 | 295 | 356 | 424 | 502 | 687 |
| 65 | - | - | - | - | 292 | 352 | 421 | 498 | 684 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.15 | 4.85 | 6.27 | 8.48 | 12.42 | 21.45 | - | - | - |
| 15 | 2.42 | 3.60 | 4.43 | 5.54 | 7.12 | 9.59 | 13.98 | 23.96 | - |
| 20 | 2.12 | 3.15 | 3.83 | 4.70 | 5.87 | 7.53 | 10.11 | 14.69 | - |
| 30 | 1.58 | 2.42 | 2.92 | 3.52 | 4.24 | 5.18 | 6.43 | 8.21 | 15.86 |
| 40 | - | 1.82 | 2.21 | 2.66 | 3.17 | 3.78 | 4.54 | 5.52 | 8.68 |
| 50 | - | 1.30 | 1.62 | 1.96 | 2.35 | 2.79 | 3.31 | 3.94 | 5.70 |
| 60 | - | - | - | 1.39 | 1.69 | 2.02 | 2.40 | 2.84 | 3.98 |
| 65 | - | - | - | - | 1.41 | 1.70 | 2.02 | 2.40 | 3.34 |

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

| | | |
|---|---|---|
| Cooling capacity | 20 152 | W |
| Power input | 6 494 | W |
| Current consumption | 9.30 | A |
| Mass flow | 461 | kg/h |
| C.O.P. | 3.10 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 90 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 7 366 | 11 506 | 14 188 | 17 338 | 21 001 | 25 222 | - | - | - |
| 15 | 6 617 | 10 524 | 13 032 | 15 969 | 19 380 | 23 310 | 27 803 | 32 904 | - |
| 20 | 6 241 | 10 020 | 12 436 | 15 261 | 18 541 | 22 319 | 26 640 | 31 550 | - |
| 30 | 5 476 | 8 978 | 11 197 | 13 787 | 16 791 | 20 254 | 24 220 | 28 733 | 39 580 |
| 40 | - | 7 872 | 9 878 | 12 215 | 14 927 | 18 057 | 21 649 | 25 747 | 35 635 |
| 50 | - | 6 678 | 8 452 | 10 517 | 12 915 | 15 691 | 18 885 | 22 542 | 31 414 |
| 60 | - | - | - | 8 624 | 10 675 | 13 058 | 15 814 | 18 985 | 26 735 |
| 65 | - | - | - | - | 9 390 | 11 546 | 14 048 | 16 936 | 24 030 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 517 | 2 554 | 2 445 | 2 219 | 1 854 | 1 327 | - | - | - |
| 15 | 2 953 | 3 159 | 3 180 | 3 117 | 2 946 | 2 644 | 2 190 | 1 559 | - |
| 20 | 3 188 | 3 444 | 3 514 | 3 515 | 3 423 | 3 217 | 2 874 | 2 370 | - |
| 30 | 3 758 | 4 045 | 4 177 | 4 272 | 4 307 | 4 258 | 4 102 | 3 818 | 2 772 |
| 40 | - | 4 773 | 4 923 | 5 066 | 5 180 | 5 242 | 5 230 | 5 119 | 4 515 |
| 50 | - | 5 732 | 5 853 | 5 999 | 6 148 | 6 275 | 6 360 | 6 378 | 6 124 |
| 60 | - | - | - | 7 176 | 7 313 | 7 460 | 7 596 | 7 697 | 7 703 |
| 65 | - | - | - | - | 8 002 | 8 142 | 8 287 | 8 412 | 8 513 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.79 | 3.83 | 3.68 | 3.37 | 2.87 | 2.15 | - | - | - |
| 15 | 4.50 | 4.74 | 4.77 | 4.68 | 4.44 | 4.03 | 3.40 | 2.52 | - |
| 20 | 4.85 | 5.16 | 5.25 | 5.24 | 5.12 | 4.83 | 4.36 | 3.66 | - |
| 30 | 5.67 | 6.00 | 6.17 | 6.29 | 6.34 | 6.27 | 6.06 | 5.67 | 4.21 |
| 40 | - | 7.00 | 7.18 | 7.37 | 7.53 | 7.62 | 7.60 | 7.46 | 6.63 |
| 50 | - | 8.30 | 8.45 | 8.64 | 8.84 | 9.02 | 9.15 | 9.19 | 8.86 |
| 60 | - | - | - | 10.25 | 10.44 | 10.66 | 10.86 | 11.02 | 11.07 |
| 65 | - | - | - | - | 11.40 | 11.61 | 11.83 | 12.02 | 12.22 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 126 | 193 | 235 | 284 | 340 | 405 | - | - | - |
| 15 | 122 | 190 | 232 | 281 | 337 | 402 | 475 | 559 | - |
| 20 | 120 | 188 | 231 | 279 | 336 | 400 | 474 | 557 | - |
| 30 | 116 | 185 | 227 | 276 | 332 | 396 | 470 | 553 | 752 |
| 40 | - | 180 | 222 | 271 | 327 | 392 | 465 | 548 | 747 |
| 50 | - | 174 | 216 | 266 | 322 | 386 | 460 | 543 | 742 |
| 60 | - | - | - | 259 | 315 | 380 | 453 | 536 | 735 |
| 65 | - | - | - | - | 311 | 376 | 450 | 533 | 731 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 2.93 | 4.50 | 5.80 | 7.81 | 11.33 | 19.01 | - | - | - |
| 15 | 2.24 | 3.33 | 4.10 | 5.12 | 6.58 | 8.82 | 12.70 | 21.10 | - |
| 20 | 1.96 | 2.91 | 3.54 | 4.34 | 5.42 | 6.94 | 9.27 | 13.31 | - |
| 30 | 1.46 | 2.22 | 2.68 | 3.23 | 3.90 | 4.76 | 5.90 | 7.53 | 14.28 |
| 40 | - | 1.65 | 2.01 | 2.41 | 2.88 | 3.44 | 4.14 | 5.03 | 7.89 |
| 50 | - | 1.16 | 1.44 | 1.75 | 2.10 | 2.50 | 2.97 | 3.53 | 5.13 |
| 60 | - | - | - | 1.20 | 1.46 | 1.75 | 2.08 | 2.47 | 3.47 |
| 65 | - | - | - | - | 1.17 | 1.42 | 1.70 | 2.01 | 2.82 |

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

| | | |
|---|---|---|
| Cooling capacity | 18 885 | W |
| Power input | 6 360 | W |
| Current consumption | 9.15 | A |
| Mass flow | 460 | kg/h |
| C.O.P. | 2.97 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 90 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 7 794 | 12 157 | 14 981 | 18 296 | 22 149 | 26 585 | - | - | - |
| 15 | 7 050 | 11 194 | 13 852 | 16 962 | 20 570 | 24 725 | 29 472 | 34 858 | - |
| 20 | 6 677 | 10 702 | 13 271 | 16 273 | 19 755 | 23 764 | 28 346 | 33 547 | - |
| 30 | 5 920 | 9 685 | 12 067 | 14 844 | 18 062 | 21 768 | 26 010 | 30 833 | 42 411 |
| 40 | - | 8 612 | 10 792 | 13 330 | 16 270 | 19 661 | 23 549 | 27 979 | 38 658 |
| 50 | - | 7 463 | 9 429 | 11 714 | 14 363 | 17 425 | 20 945 | 24 970 | 34 721 |
| 60 | - | - | - | 9 979 | 12 324 | 15 042 | 18 181 | 21 786 | 30 584 |
| 65 | - | - | - | - | 11 249 | 13 791 | 16 733 | 20 124 | 28 435 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 517 | 2 554 | 2 445 | 2 219 | 1 854 | 1 327 | - | - | - |
| 15 | 2 953 | 3 159 | 3 180 | 3 117 | 2 946 | 2 644 | 2 190 | 1 559 | - |
| 20 | 3 188 | 3 444 | 3 514 | 3 515 | 3 423 | 3 217 | 2 874 | 2 370 | - |
| 30 | 3 758 | 4 045 | 4 177 | 4 272 | 4 307 | 4 258 | 4 102 | 3 818 | 2 772 |
| 40 | - | 4 773 | 4 923 | 5 066 | 5 180 | 5 242 | 5 230 | 5 119 | 4 515 |
| 50 | - | 5 732 | 5 853 | 5 999 | 6 148 | 6 275 | 6 360 | 6 378 | 6 124 |
| 60 | - | - | - | 7 176 | 7 313 | 7 460 | 7 596 | 7 697 | 7 703 |
| 65 | - | - | - | - | 8 002 | 8 142 | 8 287 | 8 412 | 8 513 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.79 | 3.83 | 3.68 | 3.37 | 2.87 | 2.15 | - | - | - |
| 15 | 4.50 | 4.74 | 4.77 | 4.68 | 4.44 | 4.03 | 3.40 | 2.52 | - |
| 20 | 4.85 | 5.16 | 5.25 | 5.24 | 5.12 | 4.83 | 4.36 | 3.66 | - |
| 30 | 5.67 | 6.00 | 6.17 | 6.29 | 6.34 | 6.27 | 6.06 | 5.67 | 4.21 |
| 40 | - | 7.00 | 7.18 | 7.37 | 7.53 | 7.62 | 7.60 | 7.46 | 6.63 |
| 50 | - | 8.30 | 8.45 | 8.64 | 8.84 | 9.02 | 9.15 | 9.19 | 8.86 |
| 60 | - | - | - | 10.25 | 10.44 | 10.66 | 10.86 | 11.02 | 11.07 |
| 65 | - | - | - | - | 11.40 | 11.61 | 11.83 | 12.02 | 12.22 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 125 | 192 | 234 | 282 | 338 | 402 | - | - | - |
| 15 | 122 | 189 | 231 | 279 | 335 | 399 | 472 | 555 | - |
| 20 | 120 | 187 | 229 | 278 | 333 | 397 | 470 | 553 | - |
| 30 | 115 | 183 | 226 | 274 | 330 | 394 | 466 | 549 | 746 |
| 40 | - | 179 | 221 | 270 | 325 | 389 | 462 | 544 | 741 |
| 50 | - | 173 | 215 | 264 | 320 | 384 | 457 | 539 | 736 |
| 60 | - | - | - | 257 | 313 | 377 | 450 | 533 | 729 |
| 65 | - | - | - | - | 309 | 374 | 446 | 529 | 726 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.10 | 4.76 | 6.13 | 8.25 | 11.95 | 20.04 | - | - | - |
| 15 | 2.39 | 3.54 | 4.36 | 5.44 | 6.98 | 9.35 | 13.46 | 22.36 | - |
| 20 | 2.09 | 3.11 | 3.78 | 4.63 | 5.77 | 7.39 | 9.86 | 14.15 | - |
| 30 | 1.58 | 2.39 | 2.89 | 3.47 | 4.19 | 5.11 | 6.34 | 8.08 | 15.30 |
| 40 | - | 1.80 | 2.19 | 2.63 | 3.14 | 3.75 | 4.50 | 5.47 | 8.56 |
| 50 | - | 1.30 | 1.61 | 1.95 | 2.34 | 2.78 | 3.29 | 3.92 | 5.67 |
| 60 | - | - | - | 1.39 | 1.69 | 2.02 | 2.39 | 2.83 | 3.97 |
| 65 | - | - | - | - | 1.41 | 1.69 | 2.02 | 2.39 | 3.34 |

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

| | | |
|---|---|---|
| Cooling capacity | 21 377 | W |
| Power input | 6 919 | W |
| Current consumption | 9.93 | A |
| Mass flow | 489 | kg/h |
| C.O.P. | 3.09 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 95 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 7 774 | 12 131 | 14 952 | 18 264 | 22 115 | 26 551 | - | - | - |
| 15 | 6 987 | 11 106 | 13 748 | 16 840 | 20 429 | 24 564 | 29 290 | 34 656 | - |
| 20 | 6 591 | 10 579 | 13 125 | 16 101 | 19 555 | 23 532 | 28 080 | 33 246 | - |
| 30 | 5 782 | 9 484 | 11 827 | 14 558 | 17 726 | 21 376 | 25 555 | 30 309 | 41 730 |
| 40 | - | 8 316 | 10 438 | 12 908 | 15 771 | 19 075 | 22 865 | 27 186 | 37 608 |
| 50 | - | 7 049 | 8 929 | 11 116 | 13 654 | 16 587 | 19 963 | 23 824 | 33 186 |
| 60 | - | - | - | 9 112 | 11 287 | 13 812 | 16 729 | 20 082 | 28 272 |
| 65 | - | - | - | - | 9 927 | 12 213 | 14 864 | 17 922 | 25 425 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 703 | 2 748 | 2 635 | 2 403 | 2 029 | 1 493 | - | - | - |
| 15 | 3 160 | 3 388 | 3 412 | 3 346 | 3 169 | 2 860 | 2 396 | 1 756 | - |
| 20 | 3 404 | 3 690 | 3 765 | 3 766 | 3 671 | 3 459 | 3 107 | 2 593 | - |
| 30 | 3 987 | 4 322 | 4 467 | 4 568 | 4 604 | 4 551 | 4 389 | 4 096 | 3 030 |
| 40 | - | 5 080 | 5 251 | 5 407 | 5 527 | 5 590 | 5 574 | 5 457 | 4 833 |
| 50 | - | 6 067 | 6 218 | 6 385 | 6 547 | 6 681 | 6 765 | 6 779 | 6 508 |
| 60 | - | - | - | 7 608 | 7 765 | 7 926 | 8 067 | 8 167 | 8 159 |
| 65 | - | - | - | - | 8 482 | 8 639 | 8 791 | 8 918 | 9 008 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.99 | 4.06 | 3.91 | 3.59 | 3.06 | 2.29 | - | - | - |
| 15 | 4.71 | 5.03 | 5.06 | 4.98 | 4.73 | 4.29 | 3.62 | 2.69 | - |
| 20 | 5.09 | 5.47 | 5.57 | 5.58 | 5.45 | 5.15 | 4.65 | 3.90 | - |
| 30 | 5.95 | 6.37 | 6.57 | 6.71 | 6.76 | 6.69 | 6.47 | 6.05 | 4.50 |
| 40 | - | 7.44 | 7.66 | 7.87 | 8.04 | 8.13 | 8.12 | 7.96 | 7.07 |
| 50 | - | 8.83 | 9.00 | 9.22 | 9.44 | 9.63 | 9.76 | 9.79 | 9.43 |
| 60 | - | - | - | 10.92 | 11.12 | 11.34 | 11.55 | 11.71 | 11.73 |
| 65 | - | - | - | - | 12.12 | 12.33 | 12.55 | 12.74 | 12.92 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 132 | 204 | 248 | 299 | 359 | 427 | - | - | - |
| 15 | 129 | 201 | 245 | 296 | 356 | 423 | 501 | 589 | - |
| 20 | 127 | 199 | 243 | 295 | 354 | 422 | 499 | 587 | - |
| 30 | 123 | 195 | 240 | 291 | 350 | 418 | 495 | 583 | 793 |
| 40 | - | 190 | 235 | 287 | 346 | 414 | 491 | 579 | 789 |
| 50 | - | 183 | 229 | 281 | 340 | 409 | 486 | 574 | 783 |
| 60 | - | - | - | 273 | 333 | 402 | 480 | 567 | 777 |
| 65 | - | - | - | - | 329 | 398 | 476 | 564 | 774 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 2.88 | 4.41 | 5.67 | 7.60 | 10.90 | 17.78 | - | - | - |
| 15 | 2.21 | 3.28 | 4.03 | 5.03 | 6.45 | 8.59 | 12.22 | 19.73 | - |
| 20 | 1.94 | 2.87 | 3.49 | 4.28 | 5.33 | 6.80 | 9.04 | 12.82 | - |
| 30 | 1.45 | 2.19 | 2.65 | 3.19 | 3.85 | 4.70 | 5.82 | 7.40 | 13.77 |
| 40 | - | 1.64 | 1.99 | 2.39 | 2.85 | 3.41 | 4.10 | 4.98 | 7.78 |
| 50 | - | 1.16 | 1.44 | 1.74 | 2.09 | 2.48 | 2.95 | 3.51 | 5.10 |
| 60 | - | - | - | 1.20 | 1.45 | 1.74 | 2.07 | 2.46 | 3.47 |
| 65 | - | - | - | - | 1.17 | 1.41 | 1.69 | 2.01 | 2.82 |

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

| | | |
|---|---|---|
| Cooling capacity | 19 963 | W |
| Power input | 6 765 | W |
| Current consumption | 9.76 | A |
| Mass flow | 486 | kg/h |
| C.O.P. | 2.95 | |

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

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

Tolerance according EN12900

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## Performance data at 95 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 8 225 | 12 817 | 15 788 | 19 273 | 23 323 | 27 985 | - | - | - |
| 15 | 7 444 | 11 814 | 14 613 | 17 886 | 21 684 | 26 055 | 31 049 | 36 713 | - |
| 20 | 7 052 | 11 299 | 14 007 | 17 169 | 20 836 | 25 055 | 29 878 | 35 351 | - |
| 30 | 6 251 | 10 231 | 12 746 | 15 675 | 19 068 | 22 975 | 27 443 | 32 524 | 44 715 |
| 40 | - | 9 097 | 11 404 | 14 085 | 17 191 | 20 769 | 24 870 | 29 543 | 40 798 |
| 50 | - | 7 878 | 9 962 | 12 381 | 15 184 | 18 421 | 22 139 | 26 390 | 36 681 |
| 60 | - | - | - | 10 544 | 13 030 | 15 910 | 19 232 | 23 045 | 32 343 |
| 65 | - | - | - | - | 11 891 | 14 587 | 17 706 | 21 295 | 30 085 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 703 | 2 748 | 2 635 | 2 403 | 2 029 | 1 493 | - | - | - |
| 15 | 3 160 | 3 388 | 3 412 | 3 346 | 3 169 | 2 860 | 2 396 | 1 756 | - |
| 20 | 3 404 | 3 690 | 3 765 | 3 766 | 3 671 | 3 459 | 3 107 | 2 593 | - |
| 30 | 3 987 | 4 322 | 4 467 | 4 568 | 4 604 | 4 551 | 4 389 | 4 096 | 3 030 |
| 40 | - | 5 080 | 5 251 | 5 407 | 5 527 | 5 590 | 5 574 | 5 457 | 4 833 |
| 50 | - | 6 067 | 6 218 | 6 385 | 6 547 | 6 681 | 6 765 | 6 779 | 6 508 |
| 60 | - | - | - | 7 608 | 7 765 | 7 926 | 8 067 | 8 167 | 8 159 |
| 65 | - | - | - | - | 8 482 | 8 639 | 8 791 | 8 918 | 9 008 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 3.99 | 4.06 | 3.91 | 3.59 | 3.06 | 2.29 | - | - | - |
| 15 | 4.71 | 5.03 | 5.06 | 4.98 | 4.73 | 4.29 | 3.62 | 2.69 | - |
| 20 | 5.09 | 5.47 | 5.57 | 5.58 | 5.45 | 5.15 | 4.65 | 3.90 | - |
| 30 | 5.95 | 6.37 | 6.57 | 6.71 | 6.76 | 6.69 | 6.47 | 6.05 | 4.50 |
| 40 | - | 7.44 | 7.66 | 7.87 | 8.04 | 8.13 | 8.12 | 7.96 | 7.07 |
| 50 | - | 8.83 | 9.00 | 9.22 | 9.44 | 9.63 | 9.76 | 9.79 | 9.43 |
| 60 | - | - | - | 10.92 | 11.12 | 11.34 | 11.55 | 11.71 | 11.73 |
| 65 | - | - | - | - | 12.12 | 12.33 | 12.55 | 12.74 | 12.92 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 132 | 202 | 247 | 298 | 356 | 424 | - | - | - |
| 15 | 128 | 200 | 244 | 295 | 353 | 421 | 497 | 584 | - |
| 20 | 126 | 198 | 242 | 293 | 352 | 419 | 496 | 583 | - |
| 30 | 122 | 194 | 238 | 289 | 348 | 415 | 492 | 579 | 787 |
| 40 | - | 189 | 233 | 285 | 344 | 411 | 488 | 575 | 782 |
| 50 | - | 182 | 227 | 279 | 338 | 406 | 483 | 570 | 777 |
| 60 | - | - | - | 272 | 331 | 399 | 476 | 563 | 771 |
| 65 | - | - | - | - | 327 | 395 | 472 | 560 | 768 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 3.04 | 4.66 | 5.99 | 8.02 | 11.49 | 18.74 | - | - | - |
| 15 | 2.36 | 3.49 | 4.28 | 5.35 | 6.84 | 9.11 | 12.96 | 20.91 | - |
| 20 | 2.07 | 3.06 | 3.72 | 4.56 | 5.68 | 7.24 | 9.62 | 13.63 | - |
| 30 | 1.57 | 2.37 | 2.85 | 3.43 | 4.14 | 5.05 | 6.25 | 7.94 | 14.76 |
| 40 | - | 1.79 | 2.17 | 2.61 | 3.11 | 3.72 | 4.46 | 5.41 | 8.44 |
| 50 | - | 1.30 | 1.60 | 1.94 | 2.32 | 2.76 | 3.27 | 3.89 | 5.64 |
| 60 | - | - | - | 1.39 | 1.68 | 2.01 | 2.38 | 2.82 | 3.96 |
| 65 | - | - | - | - | 1.40 | 1.69 | 2.01 | 2.39 | 3.34 |

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

| | | |
|---|---|---|
| Cooling capacity | 22 603 | W |
| Power input | 7 352 | W |
| Current consumption | 10.57 | A |
| Mass flow | 517 | kg/h |
| C.O.P. | 3.07 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | |
|---|---|
| Sound power level | dB(A) |
| With accoustic hood | 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 100 Hz, EN 12900 rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 8 180 | 12 752 | 15 711 | 19 183 | 23 219 | 27 868 | - | - | - |
| 15 | 7 357 | 11 687 | 14 461 | 17 707 | 21 474 | 25 811 | 30 768 | 36 394 | - |
| 20 | 6 941 | 11 137 | 13 813 | 16 939 | 20 565 | 24 739 | 29 512 | 34 933 | - |
| 30 | 6 086 | 9 989 | 12 456 | 15 330 | 18 660 | 22 496 | 26 886 | 31 879 | 43 870 |
| 40 | - | 8 758 | 10 997 | 13 600 | 16 616 | 20 093 | 24 079 | 28 623 | 39 577 |
| 50 | - | 7 416 | 9 405 | 11 714 | 14 391 | 17 485 | 21 041 | 25 107 | 34 959 |
| 60 | - | - | - | 9 597 | 11 897 | 14 564 | 17 644 | 21 181 | 29 812 |
| 65 | - | - | - | - | 10 460 | 12 879 | 15 681 | 18 909 | 26 823 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 897 | 2 950 | 2 834 | 2 596 | 2 215 | 1 672 | - | - | - |
| 15 | 3 373 | 3 625 | 3 651 | 3 583 | 3 401 | 3 085 | 2 614 | 1 968 | - |
| 20 | 3 624 | 3 943 | 4 024 | 4 025 | 3 927 | 3 708 | 3 348 | 2 828 | - |
| 30 | 4 218 | 4 608 | 4 766 | 4 873 | 4 908 | 4 852 | 4 684 | 4 383 | 3 302 |
| 40 | - | 5 394 | 5 587 | 5 757 | 5 883 | 5 947 | 5 926 | 5 801 | 5 159 |
| 50 | - | 6 405 | 6 589 | 6 780 | 6 955 | 7 095 | 7 179 | 7 188 | 6 897 |
| 60 | - | - | - | 8 045 | 8 226 | 8 400 | 8 546 | 8 645 | 8 620 |
| 65 | - | - | - | - | 8 969 | 9 143 | 9 305 | 9 433 | 9 509 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 4.18 | 4.31 | 4.16 | 3.82 | 3.26 | 2.44 | - | - | - |
| 15 | 4.93 | 5.31 | 5.37 | 5.28 | 5.03 | 4.56 | 3.85 | 2.87 | - |
| 20 | 5.32 | 5.78 | 5.91 | 5.93 | 5.79 | 5.48 | 4.94 | 4.16 | - |
| 30 | 6.24 | 6.75 | 6.98 | 7.14 | 7.20 | 7.13 | 6.89 | 6.44 | 4.81 |
| 40 | - | 7.90 | 8.15 | 8.39 | 8.57 | 8.67 | 8.65 | 8.48 | 7.53 |
| 50 | - | 9.37 | 9.58 | 9.82 | 10.06 | 10.26 | 10.39 | 10.41 | 10.01 |
| 60 | - | - | - | 11.60 | 11.82 | 12.05 | 12.26 | 12.41 | 12.41 |
| 65 | - | - | - | - | 12.85 | 13.07 | 13.29 | 13.48 | 13.63 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 139 | 214 | 261 | 314 | 377 | 448 | - | - | - |
| 15 | 136 | 211 | 258 | 312 | 374 | 445 | 526 | 618 | - |
| 20 | 134 | 209 | 256 | 310 | 372 | 443 | 524 | 617 | - |
| 30 | 129 | 205 | 252 | 307 | 369 | 440 | 521 | 613 | 834 |
| 40 | - | 200 | 247 | 302 | 364 | 436 | 517 | 609 | 830 |
| 50 | - | 193 | 241 | 296 | 359 | 431 | 512 | 605 | 825 |
| 60 | - | - | - | 288 | 351 | 424 | 506 | 598 | 820 |
| 65 | - | - | - | - | 347 | 419 | 502 | 595 | 816 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 2.82 | 4.32 | 5.54 | 7.39 | 10.48 | 16.67 | - | - | - |
| 15 | 2.18 | 3.22 | 3.96 | 4.94 | 6.31 | 8.37 | 11.77 | 18.49 | - |
| 20 | 1.91 | 2.82 | 3.43 | 4.21 | 5.24 | 6.67 | 8.81 | 12.35 | - |
| 30 | 1.44 | 2.17 | 2.61 | 3.15 | 3.80 | 4.64 | 5.74 | 7.27 | 13.28 |
| 40 | - | 1.62 | 1.97 | 2.36 | 2.82 | 3.38 | 4.06 | 4.93 | 7.67 |
| 50 | - | 1.16 | 1.43 | 1.73 | 2.07 | 2.46 | 2.93 | 3.49 | 5.07 |
| 60 | - | - | - | 1.19 | 1.45 | 1.73 | 2.06 | 2.45 | 3.46 |
| 65 | - | - | - | - | 1.17 | 1.41 | 1.69 | 2.00 | 2.82 |

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

| | | |
|---|---|---|
| Cooling capacity | 21 041 | W |
| Power input | 7 179 | W |
| Current consumption | 10.39 | A |
| Mass flow | 512 | kg/h |
| C.O.P. | 2.93 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | | |
|---|---|---|
| Sound power level | 86 | dB(A) |
| With accoustic 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 100 Hz, ARI rating conditions

# R410A

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -30 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
| **Cooling capacity in W** | | | | | | | | | |
| 5 | 8 654 | 13 474 | 16 589 | 20 243 | 24 487 | 29 373 | - | - | - |
| 15 | 7 838 | 12 432 | 15 371 | 18 807 | 22 792 | 27 378 | 32 615 | 38 555 | - |
| 20 | 7 426 | 11 895 | 14 740 | 18 062 | 21 912 | 26 341 | 31 402 | 37 144 | - |
| 30 | 6 580 | 10 776 | 13 423 | 16 505 | 20 073 | 24 178 | 28 873 | 34 209 | 47 008 |
| 40 | - | 9 581 | 12 014 | 14 840 | 18 111 | 21 877 | 26 191 | 31 104 | 42 934 |
| 50 | - | 8 289 | 10 492 | 13 047 | 16 005 | 19 417 | 23 335 | 27 811 | 38 640 |
| 60 | - | - | - | 11 105 | 13 734 | 16 777 | 20 284 | 24 306 | 34 104 |
| 65 | - | - | - | - | 12 531 | 15 383 | 18 678 | 22 468 | 31 740 |
| **Power input in W** | | | | | | | | | |
| 5 | 2 897 | 2 950 | 2 834 | 2 596 | 2 215 | 1 672 | - | - | - |
| 15 | 3 373 | 3 625 | 3 651 | 3 583 | 3 401 | 3 085 | 2 614 | 1 968 | - |
| 20 | 3 624 | 3 943 | 4 024 | 4 025 | 3 927 | 3 708 | 3 348 | 2 828 | - |
| 30 | 4 218 | 4 608 | 4 766 | 4 873 | 4 908 | 4 852 | 4 684 | 4 383 | 3 302 |
| 40 | - | 5 394 | 5 587 | 5 757 | 5 883 | 5 947 | 5 926 | 5 801 | 5 159 |
| 50 | - | 6 405 | 6 589 | 6 780 | 6 955 | 7 095 | 7 179 | 7 188 | 6 897 |
| 60 | - | - | - | 8 045 | 8 226 | 8 400 | 8 546 | 8 645 | 8 620 |
| 65 | - | - | - | - | 8 969 | 9 143 | 9 305 | 9 433 | 9 509 |
| **Current consumption in A** | | | | | | | | | |
| 5 | 4.18 | 4.31 | 4.16 | 3.82 | 3.26 | 2.44 | - | - | - |
| 15 | 4.93 | 5.31 | 5.37 | 5.28 | 5.03 | 4.56 | 3.85 | 2.87 | - |
| 20 | 5.32 | 5.78 | 5.91 | 5.93 | 5.79 | 5.48 | 4.94 | 4.16 | - |
| 30 | 6.24 | 6.75 | 6.98 | 7.14 | 7.20 | 7.13 | 6.89 | 6.44 | 4.81 |
| 40 | - | 7.90 | 8.15 | 8.39 | 8.57 | 8.67 | 8.65 | 8.48 | 7.53 |
| 50 | - | 9.37 | 9.58 | 9.82 | 10.06 | 10.26 | 10.39 | 10.41 | 10.01 |
| 60 | - | - | - | 11.60 | 11.82 | 12.05 | 12.26 | 12.41 | 12.41 |
| 65 | - | - | - | - | 12.85 | 13.07 | 13.29 | 13.48 | 13.63 |
| **Mass flow in kg/h** | | | | | | | | | |
| 5 | 139 | 213 | 259 | 313 | 374 | 445 | - | - | - |
| 15 | 135 | 210 | 256 | 310 | 371 | 442 | 522 | 614 | - |
| 20 | 133 | 208 | 255 | 308 | 370 | 440 | 521 | 612 | - |
| 30 | 128 | 204 | 251 | 305 | 366 | 437 | 518 | 609 | 827 |
| 40 | - | 199 | 246 | 300 | 362 | 433 | 514 | 605 | 823 |
| 50 | - | 192 | 239 | 294 | 357 | 428 | 509 | 600 | 819 |
| 60 | - | - | - | 286 | 349 | 421 | 502 | 594 | 813 |
| 65 | - | - | - | - | 345 | 417 | 498 | 590 | 810 |
| **Coefficient of performance (C.O.P.)** | | | | | | | | | |
| 5 | 2.99 | 4.57 | 5.85 | 7.80 | 11.05 | 17.57 | - | - | - |
| 15 | 2.32 | 3.43 | 4.21 | 5.25 | 6.70 | 8.88 | 12.48 | 19.59 | - |
| 20 | 2.05 | 3.02 | 3.66 | 4.49 | 5.58 | 7.10 | 9.38 | 13.13 | - |
| 30 | 1.56 | 2.34 | 2.82 | 3.39 | 4.09 | 4.98 | 6.16 | 7.81 | 14.23 |
| 40 | - | 1.78 | 2.15 | 2.58 | 3.08 | 3.68 | 4.42 | 5.36 | 8.32 |
| 50 | - | 1.29 | 1.59 | 1.92 | 2.30 | 2.74 | 3.25 | 3.87 | 5.60 |
| 60 | - | - | - | 1.38 | 1.67 | 2.00 | 2.37 | 2.81 | 3.96 |
| 65 | - | - | - | - | 1.40 | 1.68 | 2.01 | 2.38 | 3.34 |

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

| | | |
|---|---|---|
| Cooling capacity | 23 831 | W |
| Power input | 7 793 | W |
| Current consumption | 11.24 | A |
| Mass flow | 545 | kg/h |
| C.O.P. | 3.06 | |

**Pressure switch settings**

| | | |
|---|---|---|
| Maximum HP switch setting | 43.8 | bar(g) |
| Minimum LP switch setting | 1 | bar(g) |
| LP pump down setting | 1.2 | bar(g) |

**Sound power data**

| | | |
|---|---|---|
| Sound power level | 86 | dB(A) |
| With accoustic 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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