

Datasheets

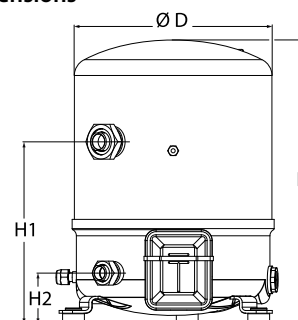
# Danfoss Reciprocating compressors **MT / MTZ / NTZ**



### General Characteristics

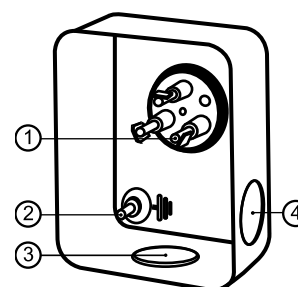
|   |   |                   |
|---|---|-------------------|
| Model number (on compressor nameplate)            |   | <b>MT44HJ4BVE</b> |
| Code number for Singlepack*                       |   | MT44-4VI          |
| Code number for Industrial pack**                 |   | MT44-4VM          |
| Drawing number                                    |   | 8502012g          |
| Suction and discharge connections                 |   | Rotolock          |
| Suction connection                                |   | 1-3/4" Rotolock   |
| Discharge connection                              |   | 1-1/4" Rotolock   |
| Suction connection with supplied sleeve           |   | 7/8" ODF          |
| Discharge connection with supplied sleeve         |   | 3/4" ODF          |
| Oil sight glass                                   |   | Threaded          |
| Oil equalisation connection                       |   | 3/8" flare SAE    |
| Oil drain connection                              |   | None              |
| LP gauge port                                     |   | Schrader          |
| IPR valve   |   | 30 bar / 8 bar    |
| Cylinders   | 2   |                   |
| Swept volume                                      | 76.22 cm <sup>3</sup> /rev  |                   |
| Displacement @ Nominal speed                      | 13.3 m <sup>3</sup> /h @ 2900 rpm - 16.0 m <sup>3</sup> /h @ 3500 rpm |                   |
| Net weight  | 37 kg   |                   |
| Oil charge  | 1.8 litre, Mineral - 160P   |                   |
| Maximum system test pressure Low Side / High side | 25 bar(g) / 30 bar(g)   |                   |
| Maximum differential test pressure                | 30 bar  |                   |
| Maximum number of starts per hour                 | 12  |                   |
| Refrigerant charge limit                          | 5 kg  |                   |
| Approved refrigerants                             | R22, R417A-160PZ  |                   |

### Dimensions



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

### Terminal box



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

### Electrical Characteristics

|  |                                     |
|--|-------------------------------------|
| Nominal voltage                                    | 380-400V/3/50Hz - 460V/3/60Hz       |
| Voltage range                                      | 340-440 V @ 50Hz - 414-506 V @ 60Hz |
| Winding resistance (between phases) +/- 7% at 25°C | 3.22 Ω                              |
| Maximum Continuous Current (MCC)                   | 9.5 A                               |
| Locked Rotor Amps (LRA)                            | 48.5 A                              |
| Motor protection                                   | Internal overload protector         |

### Recommended Installation torques

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

### Parts shipped with compressor

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

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

\*Singlepack: Compressor in cardboard box

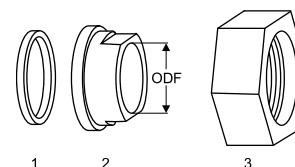
\*\*Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

**Rotolock accessories, suction side**

**Code no.**

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

**Gaskets, sleeves and nuts**



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

**Rotolock accessories, discharge side**

**Code no.**

|   |         |
|---|---------|
| Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)  | 8153008 |
| Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)  | 8168006 |
| Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF) | 8168029 |
| Gasket, 1-1/4"                                  | 8156131 |

**Rotolock accessories, sets**

**Code no.**

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

**Oil / lubricants**

**Code no.**

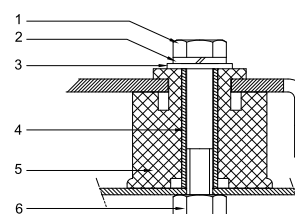
|                                |         |
|--------------------------------|---------|
| Mineral oil, 160P, 2 litre can | 7754001 |
| Mineral oil, 160P, 5 litre can | 7754002 |

**Crankcase heaters**

**Code no.**

|  |          |
|--|----------|
| PTC heater 27W, CE mark, UL                          | 120Z0459 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 7773107  |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 7773117  |
| Belt type crankcase heater, 65 W, 460 V, CE mark, UL | 120Z0466 |

**Mounting kit**



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

**Miscellaneous accessories**

**Code no.**

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

**Spare parts**

**Code no.**

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

**Performance data at 50 Hz, EN 12900 rating conditions**
**R22**

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

**Cooling capacity in W**

|    |       |       |       |       |       |        |        |        |        |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 499 | 3 543 | 4 855 | 6 462 | 8 389 | 10 661 | 13 305 | 16 347 | 19 811 |
| 35 | 2 234 | 3 195 | 4 412 | 5 913 | 7 722 | 9 865  | 12 369 | 15 258 | 18 559 |
| 40 | 1 995 | 2 868 | 3 987 | 5 377 | 7 065 | 9 075  | 11 434 | 14 167 | 17 301 |
| 45 | 1 788 | 2 570 | 3 586 | 4 862 | 6 423 | 8 296  | 10 507 | 13 080 | 16 041 |
| 50 | -     | 2 306 | 3 215 | 4 372 | 5 804 | 7 536  | 9 593  | 12 002 | 14 788 |
| 55 | -     | -     | 2 880 | 3 915 | 5 213 | 6 799  | 8 700  | 10 940 | 13 546 |
| 60 | -     | -     | -     | 3 496 | 4 656 | 6 093  | 7 832  | 9 900  | 12 323 |
| 65 | -     | -     | -     | -     | 4 140 | 5 423  | 6 998  | 8 889  | 11 123 |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 611 | 1 799 | 1 969 | 2 120 | 2 251 | 2 362 | 2 451 | 2 519 | 2 564 |
| 35 | 1 655 | 1 868 | 2 064 | 2 242 | 2 401 | 2 540 | 2 659 | 2 758 | 2 834 |
| 40 | 1 684 | 1 924 | 2 148 | 2 355 | 2 544 | 2 714 | 2 865 | 2 996 | 3 106 |
| 45 | 1 695 | 1 965 | 2 219 | 2 457 | 2 678 | 2 881 | 3 066 | 3 232 | 3 378 |
| 50 | -     | 1 988 | 2 275 | 2 546 | 2 801 | 3 039 | 3 260 | 3 463 | 3 647 |
| 55 | -     | -     | 2 313 | 2 619 | 2 911 | 3 187 | 3 446 | 3 688 | 3 912 |
| 60 | -     | -     | -     | 2 675 | 3 005 | 3 320 | 3 620 | 3 903 | 4 170 |
| 65 | -     | -     | -     | -     | 3 082 | 3 438 | 3 781 | 4 108 | 4 418 |

**Current consumption in A**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.12 | 4.29 | 4.47 | 4.66 | 4.83 | 4.98 | 5.10 | 5.19 | 5.22 |
| 35 | 4.17 | 4.37 | 4.57 | 4.78 | 4.97 | 5.15 | 5.30 | 5.41 | 5.48 |
| 40 | 4.21 | 4.43 | 4.67 | 4.90 | 5.13 | 5.34 | 5.52 | 5.67 | 5.78 |
| 45 | 4.23 | 4.48 | 4.75 | 5.02 | 5.29 | 5.54 | 5.76 | 5.96 | 6.11 |
| 50 | -    | 4.50 | 4.81 | 5.13 | 5.44 | 5.74 | 6.01 | 6.26 | 6.46 |
| 55 | -    | -    | 4.85 | 5.21 | 5.58 | 5.93 | 6.26 | 6.57 | 6.83 |
| 60 | -    | -    | -    | 5.27 | 5.69 | 6.11 | 6.50 | 6.87 | 7.20 |
| 65 | -    | -    | -    | -    | 5.78 | 6.26 | 6.73 | 7.17 | 7.57 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 54 | 76 | 103 | 135 | 173 | 218 | 269 | 326 | 392 |
| 35 | 51 | 71 | 97  | 129 | 166 | 209 | 259 | 316 | 381 |
| 40 | 47 | 67 | 91  | 122 | 158 | 200 | 249 | 305 | 369 |
| 45 | 44 | 63 | 86  | 115 | 150 | 191 | 239 | 293 | 356 |
| 50 | -  | 59 | 81  | 108 | 141 | 181 | 228 | 281 | 342 |
| 55 | -  | -  | 76  | 102 | 133 | 172 | 216 | 269 | 328 |
| 60 | -  | -  | -   | 96  | 126 | 162 | 205 | 256 | 314 |
| 65 | -  | -  | -   | -   | 118 | 153 | 194 | 243 | 299 |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.55 | 1.97 | 2.47 | 3.05 | 3.73 | 4.51 | 5.43 | 6.49 | 7.73 |
| 35 | 1.35 | 1.71 | 2.14 | 2.64 | 3.22 | 3.88 | 4.65 | 5.53 | 6.55 |
| 40 | 1.18 | 1.49 | 1.86 | 2.28 | 2.78 | 3.34 | 3.99 | 4.73 | 5.57 |
| 45 | 1.05 | 1.31 | 1.62 | 1.98 | 2.40 | 2.88 | 3.43 | 4.05 | 4.75 |
| 50 | -    | 1.16 | 1.41 | 1.72 | 2.07 | 2.48 | 2.94 | 3.47 | 4.05 |
| 55 | -    | -    | 1.25 | 1.49 | 1.79 | 2.13 | 2.52 | 2.97 | 3.46 |
| 60 | -    | -    | -    | 1.31 | 1.55 | 1.83 | 2.16 | 2.54 | 2.96 |
| 65 | -    | -    | -    | -    | 1.34 | 1.58 | 1.85 | 2.16 | 2.52 |

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

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 9 593 | W    |
| Power input         | 3 260 | W    |
| Current consumption | 6.01  | A    |
| Mass flow           | 228   | kg/h |
| C.O.P.              | 2.94  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.9 | bar(g) |
| Minimum LP switch setting | 0.7  | bar(g) |
| LP pump down setting      | 0.9  | bar(g) |

**Sound power data**

|                     |    |       |
|---------------------|----|-------|
| Sound power level   | 77 | dB(A) |
| With accoustic hood | 71 | 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**
**R22**

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

**Cooling capacity in W**

|    |       |       |       |       |       |        |        |        |        |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 655 | 3 760 | 5 148 | 6 847 | 8 882 | 11 280 | 14 068 | 17 272 | 20 919 |
| 35 | 2 382 | 3 402 | 4 695 | 6 286 | 8 203 | 10 472 | 13 120 | 16 173 | 19 658 |
| 40 | 2 135 | 3 066 | 4 258 | 5 738 | 7 532 | 9 668  | 12 171 | 15 069 | 18 388 |
| 45 | 1 923 | 2 760 | 3 847 | 5 210 | 6 877 | 8 875  | 11 229 | 13 968 | 17 116 |
| 50 | -     | 2 489 | 3 466 | 4 709 | 6 244 | 8 099  | 10 301 | 12 875 | 15 850 |
| 55 | -     | -     | 3 124 | 4 241 | 5 640 | 7 348  | 9 392  | 11 798 | 14 595 |
| 60 | -     | -     | -     | 3 814 | 5 072 | 6 628  | 8 510  | 10 744 | 13 359 |
| 65 | -     | -     | -     | -     | 4 547 | 5 947  | 7 663  | 9 721  | 12 149 |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 611 | 1 799 | 1 969 | 2 120 | 2 251 | 2 362 | 2 451 | 2 519 | 2 564 |
| 35 | 1 655 | 1 868 | 2 064 | 2 242 | 2 401 | 2 540 | 2 659 | 2 758 | 2 834 |
| 40 | 1 684 | 1 924 | 2 148 | 2 355 | 2 544 | 2 714 | 2 865 | 2 996 | 3 106 |
| 45 | 1 695 | 1 965 | 2 219 | 2 457 | 2 678 | 2 881 | 3 066 | 3 232 | 3 378 |
| 50 | -     | 1 988 | 2 275 | 2 546 | 2 801 | 3 039 | 3 260 | 3 463 | 3 647 |
| 55 | -     | -     | 2 313 | 2 619 | 2 911 | 3 187 | 3 446 | 3 688 | 3 912 |
| 60 | -     | -     | -     | 2 675 | 3 005 | 3 320 | 3 620 | 3 903 | 4 170 |
| 65 | -     | -     | -     | -     | 3 082 | 3 438 | 3 781 | 4 108 | 4 418 |

**Current consumption in A**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 4.12 | 4.29 | 4.47 | 4.66 | 4.83 | 4.98 | 5.10 | 5.19 | 5.22 |
| 35 | 4.17 | 4.37 | 4.57 | 4.78 | 4.97 | 5.15 | 5.30 | 5.41 | 5.48 |
| 40 | 4.21 | 4.43 | 4.67 | 4.90 | 5.13 | 5.34 | 5.52 | 5.67 | 5.78 |
| 45 | 4.23 | 4.48 | 4.75 | 5.02 | 5.29 | 5.54 | 5.76 | 5.96 | 6.11 |
| 50 | -    | 4.50 | 4.81 | 5.13 | 5.44 | 5.74 | 6.01 | 6.26 | 6.46 |
| 55 | -    | -    | 4.85 | 5.21 | 5.58 | 5.93 | 6.26 | 6.57 | 6.83 |
| 60 | -    | -    | -    | 5.27 | 5.69 | 6.11 | 6.50 | 6.87 | 7.20 |
| 65 | -    | -    | -    | -    | 5.78 | 6.26 | 6.73 | 7.17 | 7.57 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 54 | 76 | 103 | 135 | 172 | 216 | 267 | 325 | 390 |
| 35 | 50 | 71 | 97  | 128 | 165 | 208 | 258 | 314 | 379 |
| 40 | 47 | 66 | 91  | 121 | 157 | 199 | 248 | 303 | 367 |
| 45 | 44 | 62 | 85  | 114 | 149 | 190 | 237 | 292 | 354 |
| 50 | -  | 59 | 80  | 108 | 141 | 180 | 226 | 280 | 340 |
| 55 | -  | -  | 76  | 101 | 133 | 171 | 215 | 267 | 326 |
| 60 | -  | -  | -   | 95  | 125 | 161 | 204 | 254 | 312 |
| 65 | -  | -  | -   | -   | 118 | 152 | 193 | 241 | 297 |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.65 | 2.09 | 2.62 | 3.23 | 3.95 | 4.78 | 5.74 | 6.86 | 8.16 |
| 35 | 1.44 | 1.82 | 2.27 | 2.80 | 3.42 | 4.12 | 4.93 | 5.86 | 6.94 |
| 40 | 1.27 | 1.59 | 1.98 | 2.44 | 2.96 | 3.56 | 4.25 | 5.03 | 5.92 |
| 45 | 1.13 | 1.40 | 1.73 | 2.12 | 2.57 | 3.08 | 3.66 | 4.32 | 5.07 |
| 50 | -    | 1.25 | 1.52 | 1.85 | 2.23 | 2.66 | 3.16 | 3.72 | 4.35 |
| 55 | -    | -    | 1.35 | 1.62 | 1.94 | 2.31 | 2.73 | 3.20 | 3.73 |
| 60 | -    | -    | -    | 1.43 | 1.69 | 2.00 | 2.35 | 2.75 | 3.20 |
| 65 | -    | -    | -    | -    | 1.48 | 1.73 | 2.03 | 2.37 | 2.75 |

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

|                     |        |      |
|---------------------|--------|------|
| Cooling capacity    | 10 521 | W    |
| Power input         | 3 531  | W    |
| Current consumption | 6.37   | A    |
| Mass flow           | 239    | kg/h |
| C.O.P.              | 2.98   |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.9 | bar(g) |
| Minimum LP switch setting | 0.7  | bar(g) |
| LP pump down setting      | 0.9  | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 77 | dB(A) |
| With acoustic hood | 71 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R22**

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

**Cooling capacity in W**

|    |       |       |       |       |        |        |        |        |        |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 2 982 | 4 295 | 5 883 | 7 775 | 10 002 | 12 596 | 15 584 | 19 000 | 22 872 |
| 35 | 2 666 | 3 922 | 5 435 | 7 232 | 9 346  | 11 807 | 14 643 | 17 887 | 21 568 |
| 40 | 2 343 | 3 541 | 4 976 | 6 678 | 8 677  | 11 002 | 13 685 | 16 755 | 20 243 |
| 45 | 2 018 | 3 156 | 4 512 | 6 116 | 7 997  | 10 187 | 12 714 | 15 609 | 18 902 |
| 50 | -     | 2 770 | 4 046 | 5 550 | 7 312  | 9 364  | 11 733 | 14 451 | 17 548 |
| 55 | -     | -     | 3 581 | 4 983 | 6 625  | 8 537  | 10 747 | 13 286 | 16 184 |
| 60 | -     | -     | -     | 4 421 | 5 940  | 7 710  | 9 759  | 12 117 | 14 814 |
| 65 | -     | -     | -     | -     | 5 261  | 6 886  | 8 772  | 10 946 | 13 440 |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 938 | 2 187 | 2 397 | 2 571 | 2 715 | 2 835 | 2 933 | 3 016 | 3 089 |
| 35 | 1 986 | 2 280 | 2 531 | 2 743 | 2 921 | 3 071 | 3 197 | 3 303 | 3 395 |
| 40 | 2 003 | 2 348 | 2 646 | 2 902 | 3 120 | 3 306 | 3 464 | 3 600 | 3 717 |
| 45 | 1 984 | 2 386 | 2 737 | 3 042 | 3 306 | 3 534 | 3 730 | 3 900 | 4 049 |
| 50 | -     | 2 387 | 2 796 | 3 156 | 3 472 | 3 748 | 3 988 | 4 199 | 4 384 |
| 55 | -     | -     | 2 819 | 3 240 | 3 613 | 3 942 | 4 233 | 4 489 | 4 717 |
| 60 | -     | -     | -     | 3 286 | 3 721 | 4 110 | 4 456 | 4 765 | 5 042 |
| 65 | -     | -     | -     | -     | 3 792 | 4 246 | 4 654 | 5 021 | 5 351 |

**Current consumption in A**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 3.82 | 4.05 | 4.25 | 4.42 | 4.57 | 4.68 | 4.78 | 4.86 | 4.93 |
| 35 | 3.86 | 4.15 | 4.40 | 4.61 | 4.80 | 4.96 | 5.10 | 5.21 | 5.31 |
| 40 | 3.86 | 4.20 | 4.51 | 4.79 | 5.02 | 5.23 | 5.41 | 5.56 | 5.70 |
| 45 | 3.81 | 4.23 | 4.60 | 4.93 | 5.23 | 5.49 | 5.72 | 5.92 | 6.10 |
| 50 | -    | 4.21 | 4.65 | 5.05 | 5.41 | 5.74 | 6.02 | 6.28 | 6.50 |
| 55 | -    | -    | 4.67 | 5.14 | 5.57 | 5.96 | 6.31 | 6.63 | 6.91 |
| 60 | -    | -    | -    | 5.19 | 5.70 | 6.17 | 6.59 | 6.97 | 7.32 |
| 65 | -    | -    | -    | -    | 5.80 | 6.35 | 6.85 | 7.31 | 7.72 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 65 | 92 | 125 | 163 | 207 | 257 | 315 | 380 | 453 |
| 35 | 60 | 88 | 120 | 157 | 201 | 250 | 307 | 371 | 443 |
| 40 | 55 | 82 | 114 | 151 | 194 | 243 | 298 | 361 | 431 |
| 45 | 50 | 77 | 108 | 144 | 186 | 234 | 289 | 350 | 419 |
| 50 | -  | 71 | 102 | 137 | 178 | 225 | 278 | 339 | 406 |
| 55 | -  | -  | 95  | 129 | 170 | 215 | 267 | 326 | 392 |
| 60 | -  | -  | -   | 121 | 160 | 205 | 256 | 313 | 377 |
| 65 | -  | -  | -   | -   | 150 | 194 | 243 | 299 | 362 |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.54 | 1.96 | 2.45 | 3.02 | 3.68 | 4.44 | 5.31 | 6.30 | 7.40 |
| 35 | 1.34 | 1.72 | 2.15 | 2.64 | 3.20 | 3.84 | 4.58 | 5.42 | 6.35 |
| 40 | 1.17 | 1.51 | 1.88 | 2.30 | 2.78 | 3.33 | 3.95 | 4.65 | 5.45 |
| 45 | 1.02 | 1.32 | 1.65 | 2.01 | 2.42 | 2.88 | 3.41 | 4.00 | 4.67 |
| 50 | -    | 1.16 | 1.45 | 1.76 | 2.11 | 2.50 | 2.94 | 3.44 | 4.00 |
| 55 | -    | -    | 1.27 | 1.54 | 1.83 | 2.17 | 2.54 | 2.96 | 3.43 |
| 60 | -    | -    | -    | 1.35 | 1.60 | 1.88 | 2.19 | 2.54 | 2.94 |
| 65 | -    | -    | -    | -    | 1.39 | 1.62 | 1.88 | 2.18 | 2.51 |

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

|                     |        |      |
|---------------------|--------|------|
| Cooling capacity    | 11 733 | W    |
| Power input         | 3 988  | W    |
| Current consumption | 6.02   | A    |
| Mass flow           | 278    | kg/h |
| C.O.P.              | 2.94   |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.9 | bar(g) |
| Minimum LP switch setting | 0.7  | bar(g) |
| LP pump down setting      | 0.9  | bar(g) |

**Sound power data**

|                     |    |       |
|---------------------|----|-------|
| Sound power level   | 80 | dB(A) |
| With accoustic hood | 74 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R22**

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

**Cooling capacity in W**

|    |       |       |       |       |        |        |        |        |        |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 167 | 4 558 | 6 238 | 8 238 | 10 591 | 13 327 | 16 478 | 20 076 | 24 151 |
| 35 | 2 842 | 4 177 | 5 782 | 7 689 | 9 928  | 12 532 | 15 532 | 18 959 | 22 845 |
| 40 | 2 508 | 3 786 | 5 315 | 7 127 | 9 251  | 11 721 | 14 567 | 17 822 | 21 516 |
| 45 | 2 169 | 3 389 | 4 841 | 6 555 | 8 563  | 10 897 | 13 588 | 16 668 | 20 169 |
| 50 | -     | 2 990 | 4 362 | 5 977 | 7 867  | 10 064 | 12 598 | 15 502 | 18 807 |
| 55 | -     | -     | 3 884 | 5 398 | 7 169  | 9 226  | 11 602 | 14 328 | 17 436 |
| 60 | -     | -     | -     | 4 822 | 6 471  | 8 387  | 10 603 | 13 150 | 16 059 |
| 65 | -     | -     | -     | -     | 5 777  | 7 551  | 9 605  | 11 971 | 14 679 |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 938 | 2 187 | 2 397 | 2 571 | 2 715 | 2 835 | 2 933 | 3 016 | 3 089 |
| 35 | 1 986 | 2 280 | 2 531 | 2 743 | 2 921 | 3 071 | 3 197 | 3 303 | 3 395 |
| 40 | 2 003 | 2 348 | 2 646 | 2 902 | 3 120 | 3 306 | 3 464 | 3 600 | 3 717 |
| 45 | 1 984 | 2 386 | 2 737 | 3 042 | 3 306 | 3 534 | 3 730 | 3 900 | 4 049 |
| 50 | -     | 2 387 | 2 796 | 3 156 | 3 472 | 3 748 | 3 988 | 4 199 | 4 384 |
| 55 | -     | -     | 2 819 | 3 240 | 3 613 | 3 942 | 4 233 | 4 489 | 4 717 |
| 60 | -     | -     | -     | 3 286 | 3 721 | 4 110 | 4 456 | 4 765 | 5 042 |
| 65 | -     | -     | -     | -     | 3 792 | 4 246 | 4 654 | 5 021 | 5 351 |

**Current consumption in A**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 3.82 | 4.05 | 4.25 | 4.42 | 4.57 | 4.68 | 4.78 | 4.86 | 4.93 |
| 35 | 3.86 | 4.15 | 4.40 | 4.61 | 4.80 | 4.96 | 5.10 | 5.21 | 5.31 |
| 40 | 3.86 | 4.20 | 4.51 | 4.79 | 5.02 | 5.23 | 5.41 | 5.56 | 5.70 |
| 45 | 3.81 | 4.23 | 4.60 | 4.93 | 5.23 | 5.49 | 5.72 | 5.92 | 6.10 |
| 50 | -    | 4.21 | 4.65 | 5.05 | 5.41 | 5.74 | 6.02 | 6.28 | 6.50 |
| 55 | -    | -    | 4.67 | 5.14 | 5.57 | 5.96 | 6.31 | 6.63 | 6.91 |
| 60 | -    | -    | -    | 5.19 | 5.70 | 6.17 | 6.59 | 6.97 | 7.32 |
| 65 | -    | -    | -    | -    | 5.80 | 6.35 | 6.85 | 7.31 | 7.72 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 65 | 92 | 124 | 162 | 206 | 256 | 313 | 378 | 450 |
| 35 | 60 | 87 | 119 | 156 | 199 | 249 | 305 | 369 | 440 |
| 40 | 55 | 82 | 114 | 150 | 193 | 241 | 297 | 359 | 429 |
| 45 | 50 | 76 | 108 | 144 | 185 | 233 | 287 | 348 | 417 |
| 50 | -  | 70 | 101 | 137 | 177 | 224 | 277 | 337 | 404 |
| 55 | -  | -  | 94  | 129 | 169 | 214 | 266 | 324 | 390 |
| 60 | -  | -  | -   | 120 | 159 | 204 | 254 | 311 | 375 |
| 65 | -  | -  | -   | -   | 150 | 193 | 242 | 297 | 359 |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.63 | 2.08 | 2.60 | 3.20 | 3.90 | 4.70 | 5.62 | 6.66 | 7.82 |
| 35 | 1.43 | 1.83 | 2.28 | 2.80 | 3.40 | 4.08 | 4.86 | 5.74 | 6.73 |
| 40 | 1.25 | 1.61 | 2.01 | 2.46 | 2.96 | 3.55 | 4.21 | 4.95 | 5.79 |
| 45 | 1.09 | 1.42 | 1.77 | 2.15 | 2.59 | 3.08 | 3.64 | 4.27 | 4.98 |
| 50 | -    | 1.25 | 1.56 | 1.89 | 2.27 | 2.69 | 3.16 | 3.69 | 4.29 |
| 55 | -    | -    | 1.38 | 1.67 | 1.98 | 2.34 | 2.74 | 3.19 | 3.70 |
| 60 | -    | -    | -    | 1.47 | 1.74 | 2.04 | 2.38 | 2.76 | 3.19 |
| 65 | -    | -    | -    | -    | 1.52 | 1.78 | 2.06 | 2.38 | 2.74 |

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

|                     |        |      |
|---------------------|--------|------|
| Cooling capacity    | 12 885 | W    |
| Power input         | 4 318  | W    |
| Current consumption | 6.42   | A    |
| Mass flow           | 292    | kg/h |
| C.O.P.              | 2.98   |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.9 | bar(g) |
| Minimum LP switch setting | 0.7  | bar(g) |
| LP pump down setting      | 0.9  | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 80 | dB(A) |
| With acoustic hood | 74 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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