

Datasheets

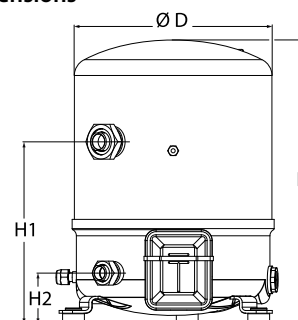
Danfoss Reciprocating compressors **MT / MTZ / NTZ**



General Characteristics

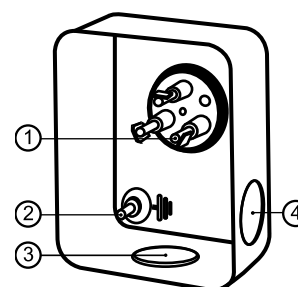
| | | |
|---|---|--------------------|
| Model number (on compressor nameplate) | | MTZ64HM4CVE |
| Code number for Singlepack* | | MTZ64-4VI |
| Code number for Industrial pack** | | MTZ64-4VM |
| Drawing number | | 8502012g |
| Suction and discharge connections | | Rotolock |
| Suction connection | | 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 | 107.71 cm ³ /rev | |
| Displacement @ Nominal speed | 18.7 m ³ /h @ 2900 rpm - 22.6 m ³ /h @ 3500 rpm | |
| Net weight | 39 kg | |
| Oil charge | 1.8 litre, POE - 175PZ | |
| Maximum system test pressure Low Side / High side | 25 bar(g) / 30 bar(g) | |
| Maximum differential test pressure | 30 bar | |
| Maximum number of starts per hour | 12 | |
| Refrigerant charge limit | 5 kg | |
| Approved refrigerants | R404A, R134a, R407A/C/F, R448A, R449A, R452A, R513A | |

Dimensions



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

Terminal box



IP55 (with cable gland)

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

Electrical Characteristics

| | |
|--|-------------------------------------|
| Nominal voltage | 380-400V/3/50Hz - 460V/3/60Hz |
| Voltage range | 340-440 V @ 50Hz - 414-506 V @ 60Hz |
| Winding resistance (between phases) +/- 7% at 25°C | 2.39 Ω |
| Maximum Continuous Current (MCC) | 14 A |
| Locked Rotor Amps (LRA) | 64 A |
| Motor protection | Internal overload protector |

Recommended Installation torques

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

Parts shipped with compressor

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

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

*Singlepack: Compressor in cardboard box

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

Rotolock accessories, suction side

Code no.

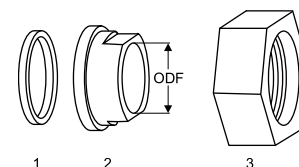
| | |
|---|---------|
| Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF) | 8153013 |
| Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF) | 8168032 |
| Gasket, 1-3/4" | 8156132 |

Gaskets, sleeves and nuts

Rotolock accessories, discharge side

Code no.

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



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

Rotolock accessories, sets

Code no.

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

Oil / lubricants

Code no.

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

Crankcase heaters

Code no.

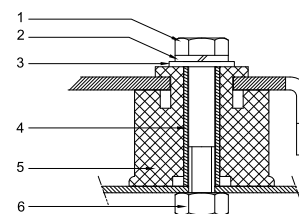
| | |
|--|----------|
| PTC heater 27W, CE mark, UL | 120Z0459 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 7773107 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 7773117 |
| Belt type crankcase heater, 65 W, 460 V, CE mark, UL | 120Z0466 |

Mounting kit

Miscellaneous accessories

Code no.

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



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

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 |

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 299 | 8 351 | 10 830 | 13 785 | 17 266 | 21 320 | 26 000 | - | - |
| 40 | 5 680 | 7 599 | 9 921 | 12 695 | 15 971 | 19 799 | 24 227 | - | - |
| 45 | 5 079 | 6 858 | 9 016 | 11 603 | 14 668 | 18 261 | 22 431 | - | - |
| 50 | - | 6 136 | 8 123 | 10 516 | 13 364 | 16 715 | 20 621 | - | - |
| 55 | - | - | 7 252 | 9 443 | 12 066 | 15 170 | 18 803 | - | - |
| 60 | - | - | - | 8 393 | 10 784 | 13 632 | 16 988 | - | - |
| 65 | - | - | - | 7 372 | 9 525 | 12 111 | 15 181 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 778 | 3 083 | 3 341 | 3 563 | 3 759 | 3 940 | 4 116 | - | - |
| 40 | 2 866 | 3 231 | 3 541 | 3 806 | 4 036 | 4 242 | 4 435 | - | - |
| 45 | 2 913 | 3 352 | 3 726 | 4 046 | 4 323 | 4 566 | 4 787 | - | - |
| 50 | - | 3 436 | 3 887 | 4 275 | 4 610 | 4 904 | 5 166 | - | - |
| 55 | - | - | 4 017 | 4 485 | 4 891 | 5 247 | 5 562 | - | - |
| 60 | - | - | - | 4 668 | 5 157 | 5 588 | 5 969 | - | - |
| 65 | - | - | - | 4 816 | 5 401 | 5 918 | 6 377 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 6.07 | 6.40 | 6.74 | 7.05 | 7.32 | 7.53 | 7.66 | - | - |
| 40 | 6.19 | 6.56 | 6.94 | 7.30 | 7.62 | 7.89 | 8.07 | - | - |
| 45 | 6.29 | 6.72 | 7.16 | 7.58 | 7.97 | 8.30 | 8.55 | - | - |
| 50 | - | 6.86 | 7.38 | 7.88 | 8.34 | 8.75 | 9.09 | - | - |
| 55 | - | - | 7.57 | 8.16 | 8.72 | 9.23 | 9.67 | - | - |
| 60 | - | - | - | 8.42 | 9.09 | 9.71 | 10.26 | - | - |
| 65 | - | - | - | 8.63 | 9.42 | 10.17 | 10.85 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 137 | 178 | 227 | 285 | 351 | 428 | 515 | - | - |
| 40 | 130 | 170 | 219 | 275 | 341 | 416 | 502 | - | - |
| 45 | 122 | 162 | 209 | 265 | 329 | 404 | 489 | - | - |
| 50 | - | 154 | 200 | 254 | 317 | 390 | 474 | - | - |
| 55 | - | - | 190 | 243 | 304 | 376 | 458 | - | - |
| 60 | - | - | - | 231 | 291 | 361 | 442 | - | - |
| 65 | - | - | - | 219 | 278 | 346 | 424 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.27 | 2.71 | 3.24 | 3.87 | 4.59 | 5.41 | 6.32 | - | - |
| 40 | 1.98 | 2.35 | 2.80 | 3.34 | 3.96 | 4.67 | 5.46 | - | - |
| 45 | 1.74 | 2.05 | 2.42 | 2.87 | 3.39 | 4.00 | 4.69 | - | - |
| 50 | - | 1.79 | 2.09 | 2.46 | 2.90 | 3.41 | 3.99 | - | - |
| 55 | - | - | 1.81 | 2.11 | 2.47 | 2.89 | 3.38 | - | - |
| 60 | - | - | - | 1.80 | 2.09 | 2.44 | 2.85 | - | - |
| 65 | - | - | - | 1.53 | 1.76 | 2.05 | 2.38 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 13 364 | W |
| Power input | 4 610 | W |
| Current consumption | 8.34 | A |
| Mass flow | 317 | kg/h |
| C.O.P. | 2.90 | |



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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 780 | 8 978 | 11 629 | 14 785 | 18 498 | 22 819 | 27 798 | - | - |
| 40 | 6 147 | 8 212 | 10 708 | 13 685 | 17 196 | 21 292 | 26 025 | - | - |
| 45 | 5 532 | 7 457 | 9 790 | 12 581 | 15 883 | 19 748 | 24 228 | - | - |
| 50 | - | 6 722 | 8 884 | 11 482 | 14 568 | 18 196 | 22 416 | - | - |
| 55 | - | - | 7 999 | 10 396 | 13 261 | 16 644 | 20 598 | - | - |
| 60 | - | - | - | 9 335 | 11 970 | 15 103 | 18 786 | - | - |
| 65 | - | - | - | 8 307 | 10 707 | 13 584 | 16 990 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 778 | 3 083 | 3 341 | 3 563 | 3 759 | 3 940 | 4 116 | - | - |
| 40 | 2 866 | 3 231 | 3 541 | 3 806 | 4 036 | 4 242 | 4 435 | - | - |
| 45 | 2 913 | 3 352 | 3 726 | 4 046 | 4 323 | 4 566 | 4 787 | - | - |
| 50 | - | 3 436 | 3 887 | 4 275 | 4 610 | 4 904 | 5 166 | - | - |
| 55 | - | - | 4 017 | 4 485 | 4 891 | 5 247 | 5 562 | - | - |
| 60 | - | - | - | 4 668 | 5 157 | 5 588 | 5 969 | - | - |
| 65 | - | - | - | 4 816 | 5 401 | 5 918 | 6 377 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 6.07 | 6.40 | 6.74 | 7.05 | 7.32 | 7.53 | 7.66 | - | - |
| 40 | 6.19 | 6.56 | 6.94 | 7.30 | 7.62 | 7.89 | 8.07 | - | - |
| 45 | 6.29 | 6.72 | 7.16 | 7.58 | 7.97 | 8.30 | 8.55 | - | - |
| 50 | - | 6.86 | 7.38 | 7.88 | 8.34 | 8.75 | 9.09 | - | - |
| 55 | - | - | 7.57 | 8.16 | 8.72 | 9.23 | 9.67 | - | - |
| 60 | - | - | - | 8.42 | 9.09 | 9.71 | 10.26 | - | - |
| 65 | - | - | - | 8.63 | 9.42 | 10.17 | 10.85 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 136 | 177 | 226 | 283 | 349 | 425 | 512 | - | - |
| 40 | 129 | 169 | 217 | 274 | 339 | 414 | 499 | - | - |
| 45 | 122 | 161 | 208 | 263 | 327 | 401 | 486 | - | - |
| 50 | - | 153 | 199 | 252 | 315 | 388 | 471 | - | - |
| 55 | - | - | 189 | 241 | 303 | 374 | 455 | - | - |
| 60 | - | - | - | 230 | 289 | 359 | 439 | - | - |
| 65 | - | - | - | 218 | 276 | 344 | 422 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.44 | 2.91 | 3.48 | 4.15 | 4.92 | 5.79 | 6.75 | - | - |
| 40 | 2.15 | 2.54 | 3.02 | 3.60 | 4.26 | 5.02 | 5.87 | - | - |
| 45 | 1.90 | 2.22 | 2.63 | 3.11 | 3.67 | 4.32 | 5.06 | - | - |
| 50 | - | 1.96 | 2.29 | 2.69 | 3.16 | 3.71 | 4.34 | - | - |
| 55 | - | - | 1.99 | 2.32 | 2.71 | 3.17 | 3.70 | - | - |
| 60 | - | - | - | 2.00 | 2.32 | 2.70 | 3.15 | - | - |
| 65 | - | - | - | 1.73 | 1.98 | 2.30 | 2.66 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 14 851 | W |
| Power input | 5 016 | W |
| Current consumption | 8.90 | A |
| Mass flow | 334 | kg/h |
| C.O.P. | 2.96 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 831 | 2 680 | 5 138 | 6 841 | 8 923 | 11 432 | 14 413 | 17 915 | 21 985 |
| 40 | 1 566 | 2 362 | 4 658 | 6 252 | 8 207 | 10 569 | 13 386 | 16 704 | 20 572 |
| 45 | 1 314 | 2 058 | 4 192 | 5 678 | 7 505 | 9 721 | 12 373 | 15 508 | 19 174 |
| 50 | 1 077 | 1 768 | 3 741 | 5 118 | 6 818 | 8 888 | 11 376 | 14 328 | 17 792 |
| 55 | - | - | 3 306 | 4 574 | 6 147 | 8 072 | 10 395 | 13 165 | 16 427 |
| 60 | - | - | - | 4 047 | 5 493 | 7 272 | 9 431 | 12 018 | 15 079 |
| 65 | - | - | - | - | 4 855 | 6 489 | 8 485 | 10 889 | 13 749 |
| 75 | - | - | - | - | - | - | 6 647 | 8 687 | 11 145 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 283 | 1 575 | 2 067 | 2 267 | 2 434 | 2 568 | 2 667 | 2 730 | 2 757 |
| 40 | 1 241 | 1 564 | 2 121 | 2 353 | 2 553 | 2 719 | 2 852 | 2 949 | 3 011 |
| 45 | 1 182 | 1 539 | 2 166 | 2 433 | 2 669 | 2 872 | 3 041 | 3 176 | 3 274 |
| 50 | 1 101 | 1 496 | 2 199 | 2 505 | 2 780 | 3 023 | 3 232 | 3 406 | 3 546 |
| 55 | - | - | 2 218 | 2 566 | 2 883 | 3 169 | 3 421 | 3 638 | 3 821 |
| 60 | - | - | - | 2 613 | 2 975 | 3 306 | 3 604 | 3 869 | 4 098 |
| 65 | - | - | - | - | 3 053 | 3 433 | 3 780 | 4 094 | 4 373 |
| 75 | - | - | - | - | - | - | 4 095 | 4 518 | 4 907 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.40 | 5.44 | 5.66 | 5.81 | 5.97 | 6.14 | 6.30 | 6.44 | 6.55 |
| 40 | 5.31 | 5.40 | 5.68 | 5.86 | 6.05 | 6.23 | 6.40 | 6.55 | 6.66 |
| 45 | 5.19 | 5.33 | 5.71 | 5.93 | 6.15 | 6.37 | 6.56 | 6.73 | 6.85 |
| 50 | 5.01 | 5.23 | 5.73 | 6.00 | 6.27 | 6.53 | 6.76 | 6.96 | 7.11 |
| 55 | - | - | 5.73 | 6.07 | 6.40 | 6.71 | 6.99 | 7.23 | 7.43 |
| 60 | - | - | - | 6.10 | 6.51 | 6.89 | 7.24 | 7.54 | 7.78 |
| 65 | - | - | - | - | 6.60 | 7.06 | 7.48 | 7.85 | 8.16 |
| 75 | - | - | - | - | - | - | 7.92 | 8.47 | 8.95 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 46 | 67 | 122 | 159 | 203 | 255 | 315 | 386 | 466 |
| 40 | 42 | 62 | 117 | 153 | 196 | 247 | 307 | 376 | 456 |
| 45 | 37 | 57 | 111 | 146 | 189 | 239 | 298 | 367 | 446 |
| 50 | 33 | 52 | 105 | 140 | 181 | 231 | 289 | 357 | 435 |
| 55 | - | - | 98 | 133 | 174 | 223 | 280 | 347 | 424 |
| 60 | - | - | - | 126 | 166 | 214 | 271 | 337 | 413 |
| 65 | - | - | - | - | 158 | 205 | 261 | 326 | 402 |
| 75 | - | - | - | - | - | - | 241 | 304 | 378 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.43 | 1.70 | 2.49 | 3.02 | 3.67 | 4.45 | 5.40 | 6.56 | 7.97 |
| 40 | 1.26 | 1.51 | 2.20 | 2.66 | 3.21 | 3.89 | 4.69 | 5.66 | 6.83 |
| 45 | 1.11 | 1.34 | 1.94 | 2.33 | 2.81 | 3.38 | 4.07 | 4.88 | 5.86 |
| 50 | 0.98 | 1.18 | 1.70 | 2.04 | 2.45 | 2.94 | 3.52 | 4.21 | 5.02 |
| 55 | - | - | 1.49 | 1.78 | 2.13 | 2.55 | 3.04 | 3.62 | 4.30 |
| 60 | - | - | - | 1.55 | 1.85 | 2.20 | 2.62 | 3.11 | 3.68 |
| 65 | - | - | - | - | 1.59 | 1.89 | 2.24 | 2.66 | 3.14 |
| 75 | - | - | - | - | - | - | 1.62 | 1.92 | 2.27 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 888 | W |
| Power input | 3 023 | W |
| Current consumption | 6.53 | A |
| Mass flow | 231 | kg/h |
| C.O.P. | 2.94 | |

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, ARI rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 990 | 2 908 | 5 556 | 7 385 | 9 618 | 12 303 | 15 490 | 19 227 | 23 564 |
| 40 | 1 712 | 2 577 | 5 063 | 6 783 | 8 889 | 11 428 | 14 451 | 18 007 | 22 143 |
| 45 | 1 447 | 2 260 | 4 584 | 6 196 | 8 174 | 10 568 | 13 427 | 16 801 | 20 739 |
| 50 | - | 1 956 | 4 119 | 5 622 | 7 473 | 9 722 | 12 418 | 15 612 | 19 351 |
| 55 | - | - | 3 669 | 5 064 | 6 788 | 8 892 | 11 426 | 14 439 | 17 981 |
| 60 | - | - | - | 4 521 | 6 119 | 8 079 | 10 451 | 13 286 | 16 631 |
| 65 | - | - | - | - | - | 7 284 | 9 496 | 12 152 | 15 303 |
| 75 | - | - | - | - | - | - | 7 648 | 9 956 | 12 726 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 283 | 1 575 | 2 067 | 2 267 | 2 434 | 2 568 | 2 667 | 2 730 | 2 757 |
| 40 | 1 241 | 1 564 | 2 121 | 2 353 | 2 553 | 2 719 | 2 852 | 2 949 | 3 011 |
| 45 | 1 182 | 1 539 | 2 166 | 2 433 | 2 669 | 2 872 | 3 041 | 3 176 | 3 274 |
| 50 | - | 1 496 | 2 199 | 2 505 | 2 780 | 3 023 | 3 232 | 3 406 | 3 546 |
| 55 | - | - | 2 218 | 2 566 | 2 883 | 3 169 | 3 421 | 3 638 | 3 821 |
| 60 | - | - | - | 2 613 | 2 975 | 3 306 | 3 604 | 3 869 | 4 098 |
| 65 | - | - | - | - | - | 3 433 | 3 780 | 4 094 | 4 373 |
| 75 | - | - | - | - | - | - | 4 095 | 4 518 | 4 907 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.40 | 5.44 | 5.66 | 5.81 | 5.97 | 6.14 | 6.30 | 6.44 | 6.55 |
| 40 | 5.31 | 5.40 | 5.68 | 5.86 | 6.05 | 6.23 | 6.40 | 6.55 | 6.66 |
| 45 | 5.19 | 5.33 | 5.71 | 5.93 | 6.15 | 6.37 | 6.56 | 6.73 | 6.85 |
| 50 | - | 5.23 | 5.73 | 6.00 | 6.27 | 6.53 | 6.76 | 6.96 | 7.11 |
| 55 | - | - | 5.73 | 6.07 | 6.40 | 6.71 | 6.99 | 7.23 | 7.43 |
| 60 | - | - | - | 6.10 | 6.51 | 6.89 | 7.24 | 7.54 | 7.78 |
| 65 | - | - | - | - | - | 7.06 | 7.48 | 7.85 | 8.16 |
| 75 | - | - | - | - | - | - | 7.92 | 8.47 | 8.95 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 46 | 66 | 122 | 158 | 202 | 253 | 314 | 383 | 464 |
| 40 | 42 | 62 | 116 | 152 | 195 | 246 | 305 | 374 | 454 |
| 45 | 37 | 57 | 110 | 146 | 188 | 238 | 297 | 365 | 443 |
| 50 | - | 52 | 104 | 139 | 181 | 230 | 288 | 355 | 433 |
| 55 | - | - | 98 | 132 | 173 | 222 | 279 | 345 | 422 |
| 60 | - | - | - | 125 | 165 | 213 | 269 | 335 | 411 |
| 65 | - | - | - | - | - | 204 | 260 | 324 | 399 |
| 75 | - | - | - | - | - | - | 240 | 303 | 376 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.55 | 1.85 | 2.69 | 3.26 | 3.95 | 4.79 | 5.81 | 7.04 | 8.55 |
| 40 | 1.38 | 1.65 | 2.39 | 2.88 | 3.48 | 4.20 | 5.07 | 6.11 | 7.36 |
| 45 | 1.22 | 1.47 | 2.12 | 2.55 | 3.06 | 3.68 | 4.41 | 5.29 | 6.33 |
| 50 | - | 1.31 | 1.87 | 2.24 | 2.69 | 3.22 | 3.84 | 4.58 | 5.46 |
| 55 | - | - | 1.65 | 1.97 | 2.35 | 2.81 | 3.34 | 3.97 | 4.71 |
| 60 | - | - | - | 1.73 | 2.06 | 2.44 | 2.90 | 3.43 | 4.06 |
| 65 | - | - | - | - | - | 2.12 | 2.51 | 2.97 | 3.50 |
| 75 | - | - | - | - | - | - | 1.87 | 2.20 | 2.59 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 058 | W |
| Power input | 3 264 | W |
| Current consumption | 6.81 | A |
| Mass flow | 247 | kg/h |
| C.O.P. | 3.08 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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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Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 529 | 4 868 | 6 542 | 8 600 | 11 094 | 14 074 | 17 592 | 21 697 | 26 442 |
| 35 | 3 058 | 4 300 | 5 847 | 7 748 | 10 054 | 12 817 | 16 088 | 19 916 | 24 353 |
| 40 | 2 602 | 3 744 | 5 160 | 6 900 | 9 017 | 11 559 | 14 579 | 18 127 | 22 254 |
| 45 | 2 160 | 3 199 | 4 482 | 6 059 | 7 982 | 10 301 | 13 067 | 16 332 | 20 145 |
| 50 | 1 735 | 2 667 | 3 813 | 5 224 | 6 950 | 9 043 | 11 553 | 14 530 | 18 027 |
| 55 | - | 2 149 | 3 155 | 4 396 | 5 923 | 7 786 | 10 036 | 12 724 | 15 900 |
| 60 | - | 1 645 | 2 508 | 3 577 | 4 901 | 6 531 | 8 518 | 10 913 | 13 766 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 404 | 2 781 | 3 131 | 3 449 | 3 733 | 3 981 | 4 189 | 4 355 | 4 476 |
| 35 | 2 399 | 2 819 | 3 211 | 3 573 | 3 903 | 4 196 | 4 451 | 4 665 | 4 835 |
| 40 | 2 372 | 2 836 | 3 274 | 3 683 | 4 060 | 4 403 | 4 708 | 4 973 | 5 195 |
| 45 | 2 320 | 2 832 | 3 318 | 3 777 | 4 204 | 4 599 | 4 956 | 5 275 | 5 552 |
| 50 | 2 240 | 2 802 | 3 340 | 3 851 | 4 332 | 4 780 | 5 194 | 5 569 | 5 904 |
| 55 | - | 2 744 | 3 336 | 3 902 | 4 440 | 4 946 | 5 418 | 5 853 | 6 248 |
| 60 | - | 2 656 | 3 305 | 3 930 | 4 526 | 5 093 | 5 626 | 6 123 | 6 581 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 30 | 5.75 | 6.10 | 6.50 | 6.90 | 7.30 | 7.65 | 7.93 | 8.11 | 8.17 |
| 35 | 5.80 | 6.17 | 6.59 | 7.04 | 7.48 | 7.88 | 8.22 | 8.48 | 8.61 |
| 40 | 5.81 | 6.21 | 6.67 | 7.16 | 7.65 | 8.12 | 8.53 | 8.86 | 9.08 |
| 45 | 5.78 | 6.22 | 6.73 | 7.27 | 7.82 | 8.36 | 8.85 | 9.26 | 9.57 |
| 50 | 5.71 | 6.20 | 6.76 | 7.36 | 7.99 | 8.60 | 9.17 | 9.68 | 10.09 |
| 55 | - | 6.14 | 6.76 | 7.43 | 8.13 | 8.83 | 9.50 | 10.10 | 10.62 |
| 60 | - | 6.04 | 6.73 | 7.48 | 8.26 | 9.05 | 9.82 | 10.54 | 11.17 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 111 | 150 | 196 | 251 | 316 | 392 | 479 | 580 | 695 |
| 35 | 103 | 142 | 188 | 242 | 306 | 380 | 467 | 566 | 679 |
| 40 | 96 | 134 | 179 | 232 | 295 | 368 | 453 | 551 | 663 |
| 45 | 87 | 124 | 169 | 221 | 283 | 355 | 438 | 535 | 645 |
| 50 | 78 | 115 | 158 | 210 | 270 | 341 | 423 | 518 | 626 |
| 55 | - | 104 | 147 | 197 | 257 | 326 | 407 | 500 | 607 |
| 60 | - | 93 | 135 | 184 | 242 | 310 | 390 | 481 | 586 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.47 | 1.75 | 2.09 | 2.49 | 2.97 | 3.54 | 4.20 | 4.98 | 5.91 |
| 35 | 1.27 | 1.53 | 1.82 | 2.17 | 2.58 | 3.05 | 3.61 | 4.27 | 5.04 |
| 40 | 1.10 | 1.32 | 1.58 | 1.87 | 2.22 | 2.63 | 3.10 | 3.65 | 4.28 |
| 45 | 0.93 | 1.13 | 1.35 | 1.60 | 1.90 | 2.24 | 2.64 | 3.10 | 3.63 |
| 50 | 0.77 | 0.95 | 1.14 | 1.36 | 1.60 | 1.89 | 2.22 | 2.61 | 3.05 |
| 55 | - | 0.78 | 0.95 | 1.13 | 1.33 | 1.57 | 1.85 | 2.17 | 2.55 |
| 60 | - | 0.62 | 0.76 | 0.91 | 1.08 | 1.28 | 1.51 | 1.78 | 2.09 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 982 | W |
| Power input | 4 204 | W |
| Current consumption | 7.82 | A |
| Mass flow | 283 | kg/h |
| C.O.P. | 1.90 | |

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 50 Hz, ARI rating conditions
R404A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 929 | 5 405 | 7 244 | 9 499 | 12 226 | 15 476 | 19 305 | 23 764 | 28 906 |
| 35 | 3 441 | 4 823 | 6 538 | 8 639 | 11 181 | 14 218 | 17 804 | 21 991 | 26 834 |
| 40 | 2 966 | 4 252 | 5 839 | 7 783 | 10 138 | 12 959 | 16 300 | 20 214 | 24 755 |
| 45 | 2 504 | 3 691 | 5 148 | 6 932 | 9 098 | 11 701 | 14 795 | 18 434 | 22 674 |
| 50 | 2 055 | 3 141 | 4 467 | 6 089 | 8 064 | 10 447 | 13 294 | 16 659 | 20 597 |
| 55 | - | 2 604 | 3 797 | 5 256 | 7 040 | 9 204 | 11 805 | 14 898 | 18 538 |
| 60 | - | 2 079 | 3 141 | 4 440 | 6 035 | 7 984 | 10 345 | 13 173 | 16 525 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 404 | 2 781 | 3 131 | 3 449 | 3 733 | 3 981 | 4 189 | 4 355 | 4 476 |
| 35 | 2 399 | 2 819 | 3 211 | 3 573 | 3 903 | 4 196 | 4 451 | 4 665 | 4 835 |
| 40 | 2 372 | 2 836 | 3 274 | 3 683 | 4 060 | 4 403 | 4 708 | 4 973 | 5 195 |
| 45 | 2 320 | 2 832 | 3 318 | 3 777 | 4 204 | 4 599 | 4 956 | 5 275 | 5 552 |
| 50 | 2 240 | 2 802 | 3 340 | 3 851 | 4 332 | 4 780 | 5 194 | 5 569 | 5 904 |
| 55 | - | 2 744 | 3 336 | 3 902 | 4 440 | 4 946 | 5 418 | 5 853 | 6 248 |
| 60 | - | 2 656 | 3 305 | 3 930 | 4 526 | 5 093 | 5 626 | 6 123 | 6 581 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 30 | 5.75 | 6.10 | 6.50 | 6.90 | 7.30 | 7.65 | 7.93 | 8.11 | 8.17 |
| 35 | 5.80 | 6.17 | 6.59 | 7.04 | 7.48 | 7.88 | 8.22 | 8.48 | 8.61 |
| 40 | 5.81 | 6.21 | 6.67 | 7.16 | 7.65 | 8.12 | 8.53 | 8.86 | 9.08 |
| 45 | 5.78 | 6.22 | 6.73 | 7.27 | 7.82 | 8.36 | 8.85 | 9.26 | 9.57 |
| 50 | 5.71 | 6.20 | 6.76 | 7.36 | 7.99 | 8.60 | 9.17 | 9.68 | 10.09 |
| 55 | - | 6.14 | 6.76 | 7.43 | 8.13 | 8.83 | 9.50 | 10.10 | 10.62 |
| 60 | - | 6.04 | 6.73 | 7.48 | 8.26 | 9.05 | 9.82 | 10.54 | 11.17 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 110 | 149 | 195 | 250 | 314 | 389 | 476 | 576 | 691 |
| 35 | 103 | 141 | 187 | 241 | 304 | 378 | 464 | 562 | 675 |
| 40 | 95 | 133 | 178 | 231 | 293 | 366 | 450 | 547 | 658 |
| 45 | 87 | 124 | 168 | 220 | 281 | 353 | 436 | 531 | 641 |
| 50 | 77 | 114 | 157 | 208 | 269 | 339 | 420 | 514 | 622 |
| 55 | - | 104 | 146 | 196 | 255 | 324 | 404 | 497 | 602 |
| 60 | - | 92 | 134 | 183 | 241 | 309 | 387 | 478 | 582 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.63 | 1.94 | 2.31 | 2.75 | 3.27 | 3.89 | 4.61 | 5.46 | 6.46 |
| 35 | 1.43 | 1.71 | 2.04 | 2.42 | 2.87 | 3.39 | 4.00 | 4.71 | 5.55 |
| 40 | 1.25 | 1.50 | 1.78 | 2.11 | 2.50 | 2.94 | 3.46 | 4.06 | 4.77 |
| 45 | 1.08 | 1.30 | 1.55 | 1.84 | 2.16 | 2.54 | 2.98 | 3.49 | 4.08 |
| 50 | 0.92 | 1.12 | 1.34 | 1.58 | 1.86 | 2.19 | 2.56 | 2.99 | 3.49 |
| 55 | - | 0.95 | 1.14 | 1.35 | 1.59 | 1.86 | 2.18 | 2.55 | 2.97 |
| 60 | - | 0.78 | 0.95 | 1.13 | 1.33 | 1.57 | 1.84 | 2.15 | 2.51 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 098 | W |
| Power input | 4 204 | W |
| Current consumption | 7.82 | A |
| Mass flow | 281 | kg/h |
| C.O.P. | 2.16 | |

Pressure switch settings

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

Sound power data

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

Performance data at 50 Hz, EN 12900 rating conditions
R407A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 2 593 | 3 844 | 5 409 | 7 337 | 9 674 | 12 469 | 15 769 | 19 622 | 24 077 |
| 35 | 2 214 | 3 397 | 4 873 | 6 691 | 8 898 | 11 542 | 14 671 | 18 332 | 22 573 |
| 40 | 1 831 | 2 940 | 4 322 | 6 024 | 8 095 | 10 582 | 13 533 | 16 996 | 21 018 |
| 45 | 1 453 | 2 482 | 3 763 | 5 344 | 7 272 | 9 597 | 12 364 | 15 623 | 19 420 |
| 50 | - | 2 032 | 3 206 | 4 660 | 6 440 | 8 595 | 11 173 | 14 222 | 17 789 |
| 55 | - | - | 2 660 | 3 980 | 5 607 | 7 587 | 9 970 | 12 802 | 16 132 |
| 60 | - | - | - | 3 314 | 4 781 | 6 580 | 8 761 | 11 371 | 14 458 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 826 | 2 210 | 2 574 | 2 912 | 3 219 | 3 489 | 3 716 | 3 896 | 4 022 |
| 35 | 1 787 | 2 210 | 2 615 | 2 996 | 3 348 | 3 666 | 3 944 | 4 176 | 4 357 |
| 40 | 1 726 | 2 190 | 2 638 | 3 066 | 3 467 | 3 835 | 4 166 | 4 454 | 4 693 |
| 45 | 1 638 | 2 147 | 2 642 | 3 119 | 3 572 | 3 994 | 4 382 | 4 728 | 5 028 |
| 50 | - | 2 079 | 2 625 | 3 154 | 3 661 | 4 141 | 4 588 | 4 996 | 5 360 |
| 55 | - | - | 2 583 | 3 167 | 3 733 | 4 273 | 4 782 | 5 255 | 5 687 |
| 60 | - | - | - | 3 158 | 3 784 | 4 388 | 4 963 | 5 504 | 6 007 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|-------|
| 30 | 5.15 | 5.49 | 5.88 | 6.28 | 6.68 | 7.03 | 7.32 | 7.52 | 7.59 |
| 35 | 5.18 | 5.52 | 5.93 | 6.36 | 6.80 | 7.20 | 7.56 | 7.83 | 8.00 |
| 40 | 5.18 | 5.54 | 5.97 | 6.44 | 6.92 | 7.39 | 7.81 | 8.17 | 8.43 |
| 45 | 5.15 | 5.53 | 5.99 | 6.50 | 7.04 | 7.57 | 8.08 | 8.53 | 8.89 |
| 50 | - | 5.49 | 5.98 | 6.54 | 7.14 | 7.75 | 8.35 | 8.89 | 9.37 |
| 55 | - | - | 5.94 | 6.56 | 7.23 | 7.92 | 8.61 | 9.26 | 9.86 |
| 60 | - | - | - | 6.54 | 7.29 | 8.07 | 8.86 | 9.63 | 10.35 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 62 | 90 | 124 | 165 | 214 | 270 | 337 | 413 | 500 |
| 35 | 55 | 84 | 118 | 158 | 206 | 263 | 329 | 405 | 492 |
| 40 | 49 | 77 | 110 | 150 | 198 | 254 | 320 | 395 | 481 |
| 45 | 41 | 69 | 102 | 142 | 189 | 244 | 309 | 384 | 470 |
| 50 | - | 60 | 93 | 132 | 178 | 233 | 297 | 371 | 456 |
| 55 | - | - | 83 | 121 | 167 | 221 | 284 | 357 | 441 |
| 60 | - | - | - | 110 | 154 | 207 | 269 | 341 | 424 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.42 | 1.74 | 2.10 | 2.52 | 3.01 | 3.57 | 4.24 | 5.04 | 5.99 |
| 35 | 1.24 | 1.54 | 1.86 | 2.23 | 2.66 | 3.15 | 3.72 | 4.39 | 5.18 |
| 40 | 1.06 | 1.34 | 1.64 | 1.96 | 2.34 | 2.76 | 3.25 | 3.82 | 4.48 |
| 45 | 0.89 | 1.16 | 1.42 | 1.71 | 2.04 | 2.40 | 2.82 | 3.30 | 3.86 |
| 50 | - | 0.98 | 1.22 | 1.48 | 1.76 | 2.08 | 2.44 | 2.85 | 3.32 |
| 55 | - | - | 1.03 | 1.26 | 1.50 | 1.78 | 2.08 | 2.44 | 2.84 |
| 60 | - | - | - | 1.05 | 1.26 | 1.50 | 1.77 | 2.07 | 2.41 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 272 | W |
| Power input | 3 572 | W |
| Current consumption | 7.04 | A |
| Mass flow | 189 | kg/h |
| C.O.P. | 2.04 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 79 | dB(A) |
| With acoustic hood | 73 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions
R407A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 2 804 | 4 151 | 5 834 | 7 901 | 10 405 | 13 394 | 16 920 | 21 030 | 25 776 |
| 35 | 2 409 | 3 690 | 5 285 | 7 245 | 9 621 | 12 462 | 15 820 | 19 743 | 24 282 |
| 40 | 2 006 | 3 215 | 4 717 | 6 564 | 8 806 | 11 493 | 14 677 | 18 407 | 22 733 |
| 45 | 1 605 | 2 736 | 4 139 | 5 866 | 7 968 | 10 496 | 13 501 | 17 032 | 21 140 |
| 50 | - | 2 261 | 3 559 | 5 161 | 7 118 | 9 481 | 12 300 | 15 628 | 19 514 |
| 55 | - | - | 2 988 | 4 458 | 6 264 | 8 456 | 11 087 | 14 206 | 17 866 |
| 60 | - | - | - | 3 766 | 5 416 | 7 433 | 9 870 | 12 779 | 16 210 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 826 | 2 210 | 2 574 | 2 912 | 3 219 | 3 489 | 3 716 | 3 896 | 4 022 |
| 35 | 1 787 | 2 210 | 2 615 | 2 996 | 3 348 | 3 666 | 3 944 | 4 176 | 4 357 |
| 40 | 1 726 | 2 190 | 2 638 | 3 066 | 3 467 | 3 835 | 4 166 | 4 454 | 4 693 |
| 45 | 1 638 | 2 147 | 2 642 | 3 119 | 3 572 | 3 994 | 4 382 | 4 728 | 5 028 |
| 50 | - | 2 079 | 2 625 | 3 154 | 3 661 | 4 141 | 4 588 | 4 996 | 5 360 |
| 55 | - | - | 2 583 | 3 167 | 3 733 | 4 273 | 4 782 | 5 255 | 5 687 |
| 60 | - | - | - | 3 158 | 3 784 | 4 388 | 4 963 | 5 504 | 6 007 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|-------|
| 30 | 5.15 | 5.49 | 5.88 | 6.28 | 6.68 | 7.03 | 7.32 | 7.52 | 7.59 |
| 35 | 5.18 | 5.52 | 5.93 | 6.36 | 6.80 | 7.20 | 7.56 | 7.83 | 8.00 |
| 40 | 5.18 | 5.54 | 5.97 | 6.44 | 6.92 | 7.39 | 7.81 | 8.17 | 8.43 |
| 45 | 5.15 | 5.53 | 5.99 | 6.50 | 7.04 | 7.57 | 8.08 | 8.53 | 8.89 |
| 50 | - | 5.49 | 5.98 | 6.54 | 7.14 | 7.75 | 8.35 | 8.89 | 9.37 |
| 55 | - | - | 5.94 | 6.56 | 7.23 | 7.92 | 8.61 | 9.26 | 9.86 |
| 60 | - | - | - | 6.54 | 7.29 | 8.07 | 8.86 | 9.63 | 10.35 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 61 | 90 | 124 | 164 | 212 | 269 | 335 | 411 | 497 |
| 35 | 55 | 83 | 117 | 157 | 205 | 262 | 327 | 402 | 489 |
| 40 | 48 | 76 | 110 | 150 | 197 | 253 | 318 | 393 | 479 |
| 45 | 41 | 68 | 101 | 141 | 188 | 243 | 307 | 382 | 467 |
| 50 | - | 60 | 92 | 131 | 177 | 232 | 295 | 369 | 453 |
| 55 | - | - | 82 | 121 | 166 | 220 | 282 | 355 | 438 |
| 60 | - | - | - | 109 | 154 | 206 | 268 | 339 | 422 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.54 | 1.88 | 2.27 | 2.71 | 3.23 | 3.84 | 4.55 | 5.40 | 6.41 |
| 35 | 1.35 | 1.67 | 2.02 | 2.42 | 2.87 | 3.40 | 4.01 | 4.73 | 5.57 |
| 40 | 1.16 | 1.47 | 1.79 | 2.14 | 2.54 | 3.00 | 3.52 | 4.13 | 4.84 |
| 45 | 0.98 | 1.27 | 1.57 | 1.88 | 2.23 | 2.63 | 3.08 | 3.60 | 4.20 |
| 50 | - | 1.09 | 1.36 | 1.64 | 1.94 | 2.29 | 2.68 | 3.13 | 3.64 |
| 55 | - | - | 1.16 | 1.41 | 1.68 | 1.98 | 2.32 | 2.70 | 3.14 |
| 60 | - | - | - | 1.19 | 1.43 | 1.69 | 1.99 | 2.32 | 2.70 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 968 | W |
| Power input | 3 572 | W |
| Current consumption | 7.04 | A |
| Mass flow | 188 | kg/h |
| C.O.P. | 2.23 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 79 | dB(A) |
| With acoustic hood | 73 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions

R407F

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | - | 4 202 | 5 960 | 8 127 | 10 758 | 13 912 | 17 642 | 22 006 | 27 060 |
| 35 | - | 3 614 | 5 215 | 7 191 | 9 597 | 12 490 | 15 926 | 19 960 | 24 649 |
| 40 | - | 3 111 | 4 581 | 6 390 | 8 595 | 11 252 | 14 417 | 18 146 | 22 495 |
| 45 | - | 2 674 | 4 037 | 5 704 | 7 732 | 10 177 | 13 095 | 16 543 | 20 576 |
| 50 | - | - | 3 562 | 5 111 | 6 987 | 9 245 | 11 941 | 15 132 | 18 874 |
| 55 | - | - | - | 4 593 | 6 340 | 8 435 | 10 934 | 13 893 | 17 367 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 2 344 | 2 719 | 3 072 | 3 386 | 3 643 | 3 828 | 3 923 | 3 911 |
| 35 | - | 2 350 | 2 762 | 3 162 | 3 534 | 3 861 | 4 126 | 4 313 | 4 404 |
| 40 | - | 2 356 | 2 797 | 3 237 | 3 660 | 4 049 | 4 388 | 4 659 | 4 846 |
| 45 | - | 2 375 | 2 837 | 3 310 | 3 777 | 4 221 | 4 626 | 4 974 | 5 250 |
| 50 | - | - | 2 898 | 3 396 | 3 899 | 4 391 | 4 855 | 5 273 | 5 630 |
| 55 | - | - | - | 3 507 | 4 040 | 4 572 | 5 088 | 5 569 | 5 999 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|-------|
| 30 | - | 5.50 | 5.91 | 6.35 | 6.78 | 7.15 | 7.43 | 7.59 | 7.59 |
| 35 | - | 5.60 | 6.03 | 6.49 | 6.96 | 7.39 | 7.75 | 8.00 | 8.11 |
| 40 | - | 5.64 | 6.09 | 6.59 | 7.10 | 7.60 | 8.04 | 8.39 | 8.61 |
| 45 | - | 5.64 | 6.12 | 6.66 | 7.23 | 7.81 | 8.34 | 8.79 | 9.14 |
| 50 | - | - | 6.14 | 6.73 | 7.38 | 8.03 | 8.66 | 9.23 | 9.70 |
| 55 | - | - | - | 6.84 | 7.56 | 8.30 | 9.04 | 9.73 | 10.34 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 87 | 121 | 163 | 213 | 271 | 339 | 419 | 509 |
| 35 | - | 78 | 111 | 151 | 198 | 255 | 320 | 396 | 484 |
| 40 | - | 71 | 103 | 141 | 187 | 241 | 304 | 377 | 462 |
| 45 | - | 64 | 95 | 133 | 177 | 229 | 291 | 362 | 444 |
| 50 | - | - | 89 | 126 | 169 | 220 | 280 | 350 | 430 |
| 55 | - | - | - | 121 | 164 | 214 | 273 | 341 | 419 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.79 | 2.19 | 2.65 | 3.18 | 3.82 | 4.61 | 5.61 | 6.92 |
| 35 | - | 1.54 | 1.89 | 2.27 | 2.72 | 3.24 | 3.86 | 4.63 | 5.60 |
| 40 | - | 1.32 | 1.64 | 1.97 | 2.35 | 2.78 | 3.29 | 3.89 | 4.64 |
| 45 | - | 1.13 | 1.42 | 1.72 | 2.05 | 2.41 | 2.83 | 3.33 | 3.92 |
| 50 | - | - | 1.23 | 1.51 | 1.79 | 2.11 | 2.46 | 2.87 | 3.35 |
| 55 | - | - | - | 1.31 | 1.57 | 1.84 | 2.15 | 2.49 | 2.90 |
| 60 | - | - | - | - | - | - | - | - | - |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 732 | W |
| Power input | 3 777 | W |
| Current consumption | 7.23 | A |
| Mass flow | 177 | kg/h |
| C.O.P. | 2.05 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 79 | dB(A) |
| With acoustic hood | 73 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 50 Hz, ARI rating conditions
R407F

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | - | 4 504 | 6 381 | 8 692 | 11 496 | 14 852 | 18 817 | 23 452 | 28 814 |
| 35 | - | 3 891 | 5 609 | 7 726 | 10 300 | 13 391 | 17 057 | 21 358 | 26 352 |
| 40 | - | 3 368 | 4 953 | 6 901 | 9 271 | 12 123 | 15 515 | 19 508 | 24 160 |
| 45 | - | 2 914 | 4 392 | 6 197 | 8 389 | 11 028 | 14 173 | 17 884 | 22 220 |
| 50 | - | - | 3 905 | 5 594 | 7 636 | 10 088 | 13 013 | 16 469 | 20 516 |
| 55 | - | - | - | 5 074 | 6 992 | 9 287 | 12 019 | 15 248 | 19 035 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 2 344 | 2 719 | 3 072 | 3 386 | 3 643 | 3 828 | 3 923 | 3 911 |
| 35 | - | 2 350 | 2 762 | 3 162 | 3 534 | 3 861 | 4 126 | 4 313 | 4 404 |
| 40 | - | 2 356 | 2 797 | 3 237 | 3 660 | 4 049 | 4 388 | 4 659 | 4 846 |
| 45 | - | 2 375 | 2 837 | 3 310 | 3 777 | 4 221 | 4 626 | 4 974 | 5 250 |
| 50 | - | - | 2 898 | 3 396 | 3 899 | 4 391 | 4 855 | 5 273 | 5 630 |
| 55 | - | - | - | 3 507 | 4 040 | 4 572 | 5 088 | 5 569 | 5 999 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|-------|
| 30 | - | 5.50 | 5.91 | 6.35 | 6.78 | 7.15 | 7.43 | 7.59 | 7.59 |
| 35 | - | 5.60 | 6.03 | 6.49 | 6.96 | 7.39 | 7.75 | 8.00 | 8.11 |
| 40 | - | 5.64 | 6.09 | 6.59 | 7.10 | 7.60 | 8.04 | 8.39 | 8.61 |
| 45 | - | 5.64 | 6.12 | 6.66 | 7.23 | 7.81 | 8.34 | 8.79 | 9.14 |
| 50 | - | - | 6.14 | 6.73 | 7.38 | 8.03 | 8.66 | 9.23 | 9.70 |
| 55 | - | - | - | 6.84 | 7.56 | 8.30 | 9.04 | 9.73 | 10.34 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 86 | 121 | 162 | 211 | 270 | 337 | 416 | 506 |
| 35 | - | 78 | 111 | 150 | 197 | 253 | 318 | 394 | 480 |
| 40 | - | 70 | 102 | 140 | 186 | 239 | 302 | 375 | 459 |
| 45 | - | 64 | 95 | 132 | 176 | 228 | 289 | 360 | 441 |
| 50 | - | - | 89 | 125 | 168 | 219 | 279 | 348 | 427 |
| 55 | - | - | - | 120 | 163 | 213 | 271 | 339 | 417 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.92 | 2.35 | 2.83 | 3.40 | 4.08 | 4.92 | 5.98 | 7.37 |
| 35 | - | 1.66 | 2.03 | 2.44 | 2.91 | 3.47 | 4.13 | 4.95 | 5.98 |
| 40 | - | 1.43 | 1.77 | 2.13 | 2.53 | 2.99 | 3.54 | 4.19 | 4.99 |
| 45 | - | 1.23 | 1.55 | 1.87 | 2.22 | 2.61 | 3.06 | 3.60 | 4.23 |
| 50 | - | - | 1.35 | 1.65 | 1.96 | 2.30 | 2.68 | 3.12 | 3.64 |
| 55 | - | - | - | 1.45 | 1.73 | 2.03 | 2.36 | 2.74 | 3.17 |
| 60 | - | - | - | - | - | - | - | - | - |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 389 | W |
| Power input | 3 777 | W |
| Current consumption | 7.23 | A |
| Mass flow | 176 | kg/h |
| C.O.P. | 2.22 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 79 | dB(A) |
| With acoustic hood | 73 | dB(A) |

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 831 | 2 680 | 5 138 | 6 841 | 8 923 | 11 432 | 14 413 | 17 915 | 21 985 |
| 40 | 1 566 | 2 362 | 4 658 | 6 252 | 8 207 | 10 569 | 13 386 | 16 704 | 20 572 |
| 45 | 1 314 | 2 058 | 4 192 | 5 678 | 7 505 | 9 721 | 12 373 | 15 508 | 19 174 |
| 50 | 1 077 | 1 768 | 3 741 | 5 118 | 6 818 | 8 888 | 11 376 | 14 328 | 17 792 |
| 55 | - | - | 3 306 | 4 574 | 6 147 | 8 072 | 10 395 | 13 165 | 16 427 |
| 60 | - | - | - | 4 047 | 5 493 | 7 272 | 9 431 | 12 018 | 15 079 |
| 65 | - | - | - | - | 4 855 | 6 489 | 8 485 | 10 889 | 13 749 |
| 75 | - | - | - | - | - | - | 6 647 | 8 687 | 11 145 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 283 | 1 575 | 2 067 | 2 267 | 2 434 | 2 568 | 2 667 | 2 730 | 2 757 |
| 40 | 1 241 | 1 564 | 2 121 | 2 353 | 2 553 | 2 719 | 2 852 | 2 949 | 3 011 |
| 45 | 1 182 | 1 539 | 2 166 | 2 433 | 2 669 | 2 872 | 3 041 | 3 176 | 3 274 |
| 50 | 1 101 | 1 496 | 2 199 | 2 505 | 2 780 | 3 023 | 3 232 | 3 406 | 3 546 |
| 55 | - | - | 2 218 | 2 566 | 2 883 | 3 169 | 3 421 | 3 638 | 3 821 |
| 60 | - | - | - | 2 613 | 2 975 | 3 306 | 3 604 | 3 869 | 4 098 |
| 65 | - | - | - | - | 3 053 | 3 433 | 3 780 | 4 094 | 4 373 |
| 75 | - | - | - | - | - | - | 4 095 | 4 518 | 4 907 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.40 | 5.44 | 5.66 | 5.81 | 5.97 | 6.14 | 6.30 | 6.44 | 6.55 |
| 40 | 5.31 | 5.40 | 5.68 | 5.86 | 6.05 | 6.23 | 6.40 | 6.55 | 6.66 |
| 45 | 5.19 | 5.33 | 5.71 | 5.93 | 6.15 | 6.37 | 6.56 | 6.73 | 6.85 |
| 50 | 5.01 | 5.23 | 5.73 | 6.00 | 6.27 | 6.53 | 6.76 | 6.96 | 7.11 |
| 55 | - | - | 5.73 | 6.07 | 6.40 | 6.71 | 6.99 | 7.23 | 7.43 |
| 60 | - | - | - | 6.10 | 6.51 | 6.89 | 7.24 | 7.54 | 7.78 |
| 65 | - | - | - | - | 6.60 | 7.06 | 7.48 | 7.85 | 8.16 |
| 75 | - | - | - | - | - | - | 7.92 | 8.47 | 8.95 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 46 | 67 | 122 | 159 | 203 | 255 | 315 | 386 | 466 |
| 40 | 42 | 62 | 117 | 153 | 196 | 247 | 307 | 376 | 456 |
| 45 | 37 | 57 | 111 | 146 | 189 | 239 | 298 | 367 | 446 |
| 50 | 33 | 52 | 105 | 140 | 181 | 231 | 289 | 357 | 435 |
| 55 | - | - | 98 | 133 | 174 | 223 | 280 | 347 | 424 |
| 60 | - | - | - | 126 | 166 | 214 | 271 | 337 | 413 |
| 65 | - | - | - | - | 158 | 205 | 261 | 326 | 402 |
| 75 | - | - | - | - | - | - | 241 | 304 | 378 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.43 | 1.70 | 2.49 | 3.02 | 3.67 | 4.45 | 5.40 | 6.56 | 7.97 |
| 40 | 1.26 | 1.51 | 2.20 | 2.66 | 3.21 | 3.89 | 4.69 | 5.66 | 6.83 |
| 45 | 1.11 | 1.34 | 1.94 | 2.33 | 2.81 | 3.38 | 4.07 | 4.88 | 5.86 |
| 50 | 0.98 | 1.18 | 1.70 | 2.04 | 2.45 | 2.94 | 3.52 | 4.21 | 5.02 |
| 55 | - | - | 1.49 | 1.78 | 2.13 | 2.55 | 3.04 | 3.62 | 4.30 |
| 60 | - | - | - | 1.55 | 1.85 | 2.20 | 2.62 | 3.11 | 3.68 |
| 65 | - | - | - | - | 1.59 | 1.89 | 2.24 | 2.66 | 3.14 |
| 75 | - | - | - | - | - | - | 1.62 | 1.92 | 2.27 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 888 | W |
| Power input | 3 023 | W |
| Current consumption | 6.53 | A |
| Mass flow | 231 | kg/h |
| C.O.P. | 2.94 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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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Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, ARI rating conditions

R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 35 | 1 990 | 2 908 | 5 556 | 7 385 | 9 618 | 12 303 | 15 490 | 19 227 | 23 564 |
| 40 | 1 712 | 2 577 | 5 063 | 6 783 | 8 889 | 11 428 | 14 451 | 18 007 | 22 143 |
| 45 | 1 447 | 2 260 | 4 584 | 6 196 | 8 174 | 10 568 | 13 427 | 16 801 | 20 739 |
| 50 | - | 1 956 | 4 119 | 5 622 | 7 473 | 9 722 | 12 418 | 15 612 | 19 351 |
| 55 | - | - | 3 669 | 5 064 | 6 788 | 8 892 | 11 426 | 14 439 | 17 981 |
| 60 | - | - | - | 4 521 | 6 119 | 8 079 | 10 451 | 13 286 | 16 631 |
| 65 | - | - | - | - | - | 7 284 | 9 496 | 12 152 | 15 303 |
| 75 | - | - | - | - | - | - | 7 648 | 9 956 | 12 726 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 283 | 1 575 | 2 067 | 2 267 | 2 434 | 2 568 | 2 667 | 2 730 | 2 757 |
| 40 | 1 241 | 1 564 | 2 121 | 2 353 | 2 553 | 2 719 | 2 852 | 2 949 | 3 011 |
| 45 | 1 182 | 1 539 | 2 166 | 2 433 | 2 669 | 2 872 | 3 041 | 3 176 | 3 274 |
| 50 | - | 1 496 | 2 199 | 2 505 | 2 780 | 3 023 | 3 232 | 3 406 | 3 546 |
| 55 | - | - | 2 218 | 2 566 | 2 883 | 3 169 | 3 421 | 3 638 | 3 821 |
| 60 | - | - | - | 2 613 | 2 975 | 3 306 | 3 604 | 3 869 | 4 098 |
| 65 | - | - | - | - | - | 3 433 | 3 780 | 4 094 | 4 373 |
| 75 | - | - | - | - | - | - | 4 095 | 4 518 | 4 907 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.40 | 5.44 | 5.66 | 5.81 | 5.97 | 6.14 | 6.30 | 6.44 | 6.55 |
| 40 | 5.31 | 5.40 | 5.68 | 5.86 | 6.05 | 6.23 | 6.40 | 6.55 | 6.66 |
| 45 | 5.19 | 5.33 | 5.71 | 5.93 | 6.15 | 6.37 | 6.56 | 6.73 | 6.85 |
| 50 | - | 5.23 | 5.73 | 6.00 | 6.27 | 6.53 | 6.76 | 6.96 | 7.11 |
| 55 | - | - | 5.73 | 6.07 | 6.40 | 6.71 | 6.99 | 7.23 | 7.43 |
| 60 | - | - | - | 6.10 | 6.51 | 6.89 | 7.24 | 7.54 | 7.78 |
| 65 | - | - | - | - | - | 7.06 | 7.48 | 7.85 | 8.16 |
| 75 | - | - | - | - | - | - | 7.92 | 8.47 | 8.95 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 46 | 66 | 122 | 158 | 202 | 253 | 314 | 383 | 464 |
| 40 | 42 | 62 | 116 | 152 | 195 | 246 | 305 | 374 | 454 |
| 45 | 37 | 57 | 110 | 146 | 188 | 238 | 297 | 365 | 443 |
| 50 | - | 52 | 104 | 139 | 181 | 230 | 288 | 355 | 433 |
| 55 | - | - | 98 | 132 | 173 | 222 | 279 | 345 | 422 |
| 60 | - | - | - | 125 | 165 | 213 | 269 | 335 | 411 |
| 65 | - | - | - | - | - | 204 | 260 | 324 | 399 |
| 75 | - | - | - | - | - | - | 240 | 303 | 376 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.55 | 1.85 | 2.69 | 3.26 | 3.95 | 4.79 | 5.81 | 7.04 | 8.55 |
| 40 | 1.38 | 1.65 | 2.39 | 2.88 | 3.48 | 4.20 | 5.07 | 6.11 | 7.36 |
| 45 | 1.22 | 1.47 | 2.12 | 2.55 | 3.06 | 3.68 | 4.41 | 5.29 | 6.33 |
| 50 | - | 1.31 | 1.87 | 2.24 | 2.69 | 3.22 | 3.84 | 4.58 | 5.46 |
| 55 | - | - | 1.65 | 1.97 | 2.35 | 2.81 | 3.34 | 3.97 | 4.71 |
| 60 | - | - | - | 1.73 | 2.06 | 2.44 | 2.90 | 3.43 | 4.06 |
| 65 | - | - | - | - | - | 2.12 | 2.51 | 2.97 | 3.50 |
| 75 | - | - | - | - | - | - | 1.87 | 2.20 | 2.59 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 058 | W |
| Power input | 3 264 | W |
| Current consumption | 6.81 | A |
| Mass flow | 247 | kg/h |
| C.O.P. | 3.08 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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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Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 299 | 8 351 | 10 830 | 13 785 | 17 266 | 21 320 | 26 000 | - | - |
| 40 | 5 680 | 7 599 | 9 921 | 12 695 | 15 971 | 19 799 | 24 227 | - | - |
| 45 | 5 079 | 6 858 | 9 016 | 11 603 | 14 668 | 18 261 | 22 431 | - | - |
| 50 | - | 6 136 | 8 123 | 10 516 | 13 364 | 16 715 | 20 621 | - | - |
| 55 | - | - | 7 252 | 9 443 | 12 066 | 15 170 | 18 803 | - | - |
| 60 | - | - | - | 8 393 | 10 784 | 13 632 | 16 988 | - | - |
| 65 | - | - | - | 7 372 | 9 525 | 12 111 | 15 181 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 778 | 3 083 | 3 341 | 3 563 | 3 759 | 3 940 | 4 116 | - | - |
| 40 | 2 866 | 3 231 | 3 541 | 3 806 | 4 036 | 4 242 | 4 435 | - | - |
| 45 | 2 913 | 3 352 | 3 726 | 4 046 | 4 323 | 4 566 | 4 787 | - | - |
| 50 | - | 3 436 | 3 887 | 4 275 | 4 610 | 4 904 | 5 166 | - | - |
| 55 | - | - | 4 017 | 4 485 | 4 891 | 5 247 | 5 562 | - | - |
| 60 | - | - | - | 4 668 | 5 157 | 5 588 | 5 969 | - | - |
| 65 | - | - | - | 4 816 | 5 401 | 5 918 | 6 377 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 6.07 | 6.40 | 6.74 | 7.05 | 7.32 | 7.53 | 7.66 | - | - |
| 40 | 6.19 | 6.56 | 6.94 | 7.30 | 7.62 | 7.89 | 8.07 | - | - |
| 45 | 6.29 | 6.72 | 7.16 | 7.58 | 7.97 | 8.30 | 8.55 | - | - |
| 50 | - | 6.86 | 7.38 | 7.88 | 8.34 | 8.75 | 9.09 | - | - |
| 55 | - | - | 7.57 | 8.16 | 8.72 | 9.23 | 9.67 | - | - |
| 60 | - | - | - | 8.42 | 9.09 | 9.71 | 10.26 | - | - |
| 65 | - | - | - | 8.63 | 9.42 | 10.17 | 10.85 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 137 | 178 | 227 | 285 | 351 | 428 | 515 | - | - |
| 40 | 130 | 170 | 219 | 275 | 341 | 416 | 502 | - | - |
| 45 | 122 | 162 | 209 | 265 | 329 | 404 | 489 | - | - |
| 50 | - | 154 | 200 | 254 | 317 | 390 | 474 | - | - |
| 55 | - | - | 190 | 243 | 304 | 376 | 458 | - | - |
| 60 | - | - | - | 231 | 291 | 361 | 442 | - | - |
| 65 | - | - | - | 219 | 278 | 346 | 424 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.27 | 2.71 | 3.24 | 3.87 | 4.59 | 5.41 | 6.32 | - | - |
| 40 | 1.98 | 2.35 | 2.80 | 3.34 | 3.96 | 4.67 | 5.46 | - | - |
| 45 | 1.74 | 2.05 | 2.42 | 2.87 | 3.39 | 4.00 | 4.69 | - | - |
| 50 | - | 1.79 | 2.09 | 2.46 | 2.90 | 3.41 | 3.99 | - | - |
| 55 | - | - | 1.81 | 2.11 | 2.47 | 2.89 | 3.38 | - | - |
| 60 | - | - | - | 1.80 | 2.09 | 2.44 | 2.85 | - | - |
| 65 | - | - | - | 1.53 | 1.76 | 2.05 | 2.38 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 13 364 | W |
| Power input | 4 610 | W |
| Current consumption | 8.34 | A |
| Mass flow | 317 | kg/h |
| C.O.P. | 2.90 | |



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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, ARI rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 6 780 | 8 978 | 11 629 | 14 785 | 18 498 | 22 819 | 27 798 | - | - |
| 40 | 6 147 | 8 212 | 10 708 | 13 685 | 17 196 | 21 292 | 26 025 | - | - |
| 45 | 5 532 | 7 457 | 9 790 | 12 581 | 15 883 | 19 748 | 24 228 | - | - |
| 50 | - | 6 722 | 8 884 | 11 482 | 14 568 | 18 196 | 22 416 | - | - |
| 55 | - | - | 7 999 | 10 396 | 13 261 | 16 644 | 20 598 | - | - |
| 60 | - | - | - | 9 335 | 11 970 | 15 103 | 18 786 | - | - |
| 65 | - | - | - | 8 307 | 10 707 | 13 584 | 16 990 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 2 778 | 3 083 | 3 341 | 3 563 | 3 759 | 3 940 | 4 116 | - | - |
| 40 | 2 866 | 3 231 | 3 541 | 3 806 | 4 036 | 4 242 | 4 435 | - | - |
| 45 | 2 913 | 3 352 | 3 726 | 4 046 | 4 323 | 4 566 | 4 787 | - | - |
| 50 | - | 3 436 | 3 887 | 4 275 | 4 610 | 4 904 | 5 166 | - | - |
| 55 | - | - | 4 017 | 4 485 | 4 891 | 5 247 | 5 562 | - | - |
| 60 | - | - | - | 4 668 | 5 157 | 5 588 | 5 969 | - | - |
| 65 | - | - | - | 4 816 | 5 401 | 5 918 | 6 377 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 6.07 | 6.40 | 6.74 | 7.05 | 7.32 | 7.53 | 7.66 | - | - |
| 40 | 6.19 | 6.56 | 6.94 | 7.30 | 7.62 | 7.89 | 8.07 | - | - |
| 45 | 6.29 | 6.72 | 7.16 | 7.58 | 7.97 | 8.30 | 8.55 | - | - |
| 50 | - | 6.86 | 7.38 | 7.88 | 8.34 | 8.75 | 9.09 | - | - |
| 55 | - | - | 7.57 | 8.16 | 8.72 | 9.23 | 9.67 | - | - |
| 60 | - | - | - | 8.42 | 9.09 | 9.71 | 10.26 | - | - |
| 65 | - | - | - | 8.63 | 9.42 | 10.17 | 10.85 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 136 | 177 | 226 | 283 | 349 | 425 | 512 | - | - |
| 40 | 129 | 169 | 217 | 274 | 339 | 414 | 499 | - | - |
| 45 | 122 | 161 | 208 | 263 | 327 | 401 | 486 | - | - |
| 50 | - | 153 | 199 | 252 | 315 | 388 | 471 | - | - |
| 55 | - | - | 189 | 241 | 303 | 374 | 455 | - | - |
| 60 | - | - | - | 230 | 289 | 359 | 439 | - | - |
| 65 | - | - | - | 218 | 276 | 344 | 422 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.44 | 2.91 | 3.48 | 4.15 | 4.92 | 5.79 | 6.75 | - | - |
| 40 | 2.15 | 2.54 | 3.02 | 3.60 | 4.26 | 5.02 | 5.87 | - | - |
| 45 | 1.90 | 2.22 | 2.63 | 3.11 | 3.67 | 4.32 | 5.06 | - | - |
| 50 | - | 1.96 | 2.29 | 2.69 | 3.16 | 3.71 | 4.34 | - | - |
| 55 | - | - | 1.99 | 2.32 | 2.71 | 3.17 | 3.70 | - | - |
| 60 | - | - | - | 2.00 | 2.32 | 2.70 | 3.15 | - | - |
| 65 | - | - | - | 1.73 | 1.98 | 2.30 | 2.66 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 14 851 | W |
| Power input | 5 016 | W |
| Current consumption | 8.90 | A |
| Mass flow | 334 | kg/h |
| C.O.P. | 2.96 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | - | 6 021 | 7 977 | 10 356 | 13 200 | - | - | - | - |
| 20 | - | 5 065 | 6 832 | 8 979 | 11 547 | 14 576 | 18 113 | - | - |
| 30 | - | 4 146 | 5 716 | 7 625 | 9 910 | 12 610 | 15 766 | 19 426 | 23 644 |
| 40 | - | - | 4 644 | 6 307 | 8 303 | 10 667 | 13 437 | 16 656 | 20 371 |
| 50 | - | - | - | 5 039 | 6 739 | 8 761 | 11 141 | 13 914 | 17 120 |
| 60 | - | - | - | - | 5 233 | 6 908 | 8 891 | 11 214 | 13 907 |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | - | 1 970 | 2 129 | 2 230 | 2 262 | - | - | - | - |
| 20 | - | 2 151 | 2 393 | 2 587 | 2 724 | 2 793 | 2 784 | - | - |
| 30 | - | 2 269 | 2 594 | 2 882 | 3 125 | 3 312 | 3 433 | 3 477 | 3 435 |
| 40 | - | - | 2 735 | 3 120 | 3 470 | 3 776 | 4 027 | 4 213 | 4 325 |
| 50 | - | - | - | 3 302 | 3 761 | 4 187 | 4 570 | 4 899 | 5 166 |
| 60 | - | - | - | - | 4 001 | 4 548 | 5 064 | 5 538 | 5 961 |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|-------|
| 10 | - | 7.93 | 8.09 | 8.13 | 8.02 | - | - | - | - |
| 20 | - | 6.39 | 6.68 | 6.90 | 7.01 | 7.00 | 6.82 | - | - |
| 30 | - | 5.70 | 6.06 | 6.41 | 6.71 | 6.93 | 7.04 | 7.00 | 6.79 |
| 40 | - | - | 6.00 | 6.44 | 6.88 | 7.28 | 7.63 | 7.89 | 8.02 |
| 50 | - | - | - | 6.72 | 7.25 | 7.80 | 8.35 | 8.85 | 9.28 |
| 60 | - | - | - | - | 7.60 | 8.25 | 8.94 | 9.64 | 10.32 |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|----|-----|-----|-----|-----|-----|-----|-----|
| 10 | - | 99 | 131 | 170 | 218 | - | - | - | - |
| 20 | - | 89 | 121 | 159 | 205 | 261 | 327 | - | - |
| 30 | - | 79 | 109 | 146 | 191 | 245 | 309 | 386 | 476 |
| 40 | - | - | 97 | 133 | 176 | 228 | 290 | 364 | 452 |
| 50 | - | - | - | 118 | 159 | 209 | 268 | 340 | 425 |
| 60 | - | - | - | - | 141 | 188 | 245 | 313 | 395 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 10 | - | 3.06 | 3.75 | 4.64 | 5.84 | - | - | - | - |
| 20 | - | 2.35 | 2.86 | 3.47 | 4.24 | 5.22 | 6.51 | - | - |
| 30 | - | 1.83 | 2.20 | 2.65 | 3.17 | 3.81 | 4.59 | 5.59 | 6.88 |
| 40 | - | - | 1.70 | 2.02 | 2.39 | 2.83 | 3.34 | 3.95 | 4.71 |
| 50 | - | - | - | 1.53 | 1.79 | 2.09 | 2.44 | 2.84 | 3.31 |
| 60 | - | - | - | - | 1.31 | 1.52 | 1.76 | 2.02 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 515 | W |
| Power input | 3 622 | W |
| Current consumption | 7.05 | A |
| Mass flow | 167 | kg/h |
| C.O.P. | 2.07 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

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

Sound power data

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

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R448A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | 4 468 | 6 051 | 8 021 | 10 420 | 13 285 | - | - | - | - |
| 20 | 3 610 | 5 033 | 6 803 | 8 960 | 11 544 | 14 593 | 18 146 | - | - |
| 30 | 2 807 | 4 062 | 5 624 | 7 533 | 9 827 | 12 546 | 15 729 | 19 415 | 23 644 |
| 40 | 2 075 | 3 154 | 4 500 | 6 152 | 8 149 | 10 530 | 13 335 | 16 602 | 20 371 |
| 50 | - | 2 324 | 3 447 | 4 834 | 6 526 | 8 561 | 10 979 | 13 819 | 17 120 |
| 60 | - | - | 2 477 | 3 592 | 4 971 | 6 652 | 8 676 | 11 081 | 13 907 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 1 762 | 1 970 | 2 129 | 2 230 | 2 262 | - | - | - | - |
| 20 | 1 873 | 2 151 | 2 393 | 2 587 | 2 724 | 2 793 | 2 784 | - | - |
| 30 | 1 919 | 2 269 | 2 594 | 2 882 | 3 125 | 3 312 | 3 433 | 3 477 | 3 435 |
| 40 | 1 904 | 2 327 | 2 735 | 3 120 | 3 470 | 3 776 | 4 027 | 4 213 | 4 325 |
| 50 | - | 2 327 | 2 821 | 3 302 | 3 761 | 4 187 | 4 570 | 4 899 | 5 166 |
| 60 | - | - | 2 853 | 3 433 | 4 001 | 4 548 | 5 064 | 5 538 | 5 961 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|-------|
| 10 | 7.68 | 7.93 | 8.09 | 8.13 | 8.02 | - | - | - | - |
| 20 | 6.07 | 6.39 | 6.68 | 6.90 | 7.01 | 7.00 | 6.82 | - | - |
| 30 | 5.34 | 5.70 | 6.06 | 6.41 | 6.71 | 6.93 | 7.04 | 7.00 | 6.79 |
| 40 | 5.26 | 5.59 | 6.00 | 6.44 | 6.88 | 7.28 | 7.63 | 7.89 | 8.02 |
| 50 | - | 5.84 | 6.24 | 6.72 | 7.25 | 7.80 | 8.35 | 8.85 | 9.28 |
| 60 | - | - | 6.54 | 7.01 | 7.60 | 8.25 | 8.94 | 9.64 | 10.32 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 86 | 115 | 149 | 191 | 239 | - | - | - | - |
| 20 | 75 | 104 | 138 | 178 | 225 | 280 | 344 | - | - |
| 30 | 64 | 92 | 125 | 164 | 210 | 264 | 325 | 396 | 476 |
| 40 | 53 | 79 | 111 | 148 | 193 | 245 | 305 | 373 | 452 |
| 50 | - | 66 | 96 | 132 | 174 | 224 | 282 | 349 | 425 |
| 60 | - | - | 81 | 115 | 155 | 202 | 258 | 322 | 395 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.54 | 3.07 | 3.77 | 4.67 | 5.87 | - | - | - | - |
| 20 | 1.93 | 2.34 | 2.84 | 3.46 | 4.24 | 5.23 | 6.52 | - | - |
| 30 | 1.46 | 1.79 | 2.17 | 2.61 | 3.14 | 3.79 | 4.58 | 5.58 | 6.88 |
| 40 | 1.09 | 1.36 | 1.65 | 1.97 | 2.35 | 2.79 | 3.31 | 3.94 | 4.71 |
| 50 | - | 1.00 | 1.22 | 1.46 | 1.74 | 2.04 | 2.40 | 2.82 | 3.31 |
| 60 | - | - | 0.87 | 1.05 | 1.24 | 1.46 | 1.71 | 2.00 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 330 | W |
| Power input | 3 622 | W |
| Current consumption | 7.05 | A |
| Mass flow | 184 | kg/h |
| C.O.P. | 2.02 | |

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

Sound power data

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

Tolerance according EN12900

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R449A

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | - | 6 032 | 7 989 | 10 368 | 13 212 | - | - | - | - |
| 20 | - | 5 076 | 6 844 | 8 992 | 11 560 | 14 588 | 18 122 | - | - |
| 30 | - | 4 157 | 5 728 | 7 638 | 9 923 | 12 622 | 15 776 | 19 432 | 23 644 |
| 40 | - | - | 4 656 | 6 321 | 8 316 | 10 679 | 13 448 | 16 662 | 20 371 |
| 50 | - | - | - | 5 053 | 6 753 | 8 774 | 11 151 | 13 920 | 17 120 |
| 60 | - | - | - | - | 5 246 | 6 921 | 8 902 | 11 220 | 13 907 |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | - | 1 970 | 2 129 | 2 230 | 2 262 | - | - | - | - |
| 20 | - | 2 151 | 2 393 | 2 587 | 2 724 | 2 793 | 2 784 | - | - |
| 30 | - | 2 269 | 2 594 | 2 882 | 3 125 | 3 312 | 3 433 | 3 477 | 3 435 |
| 40 | - | - | 2 735 | 3 120 | 3 470 | 3 776 | 4 027 | 4 213 | 4 325 |
| 50 | - | - | - | 3 302 | 3 761 | 4 187 | 4 570 | 4 899 | 5 166 |
| 60 | - | - | - | - | 4 001 | 4 548 | 5 064 | 5 538 | 5 961 |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|-------|
| 10 | - | 7.93 | 8.09 | 8.13 | 8.02 | - | - | - | - |
| 20 | - | 6.39 | 6.68 | 6.90 | 7.01 | 7.00 | 6.82 | - | - |
| 30 | - | 5.70 | 6.06 | 6.41 | 6.71 | 6.93 | 7.04 | 7.00 | 6.79 |
| 40 | - | - | 6.00 | 6.44 | 6.88 | 7.28 | 7.63 | 7.89 | 8.02 |
| 50 | - | - | - | 6.72 | 7.25 | 7.80 | 8.35 | 8.85 | 9.28 |
| 60 | - | - | - | - | 7.60 | 8.25 | 8.94 | 9.64 | 10.32 |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | - | 100 | 134 | 174 | 223 | - | - | - | - |
| 20 | - | 91 | 123 | 162 | 210 | 266 | 333 | - | - |
| 30 | - | 80 | 112 | 149 | 195 | 250 | 315 | 393 | 485 |
| 40 | - | - | 99 | 136 | 179 | 232 | 296 | 371 | 460 |
| 50 | - | - | - | 121 | 163 | 213 | 274 | 347 | 433 |
| 60 | - | - | - | - | 145 | 193 | 251 | 321 | 404 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 10 | - | 3.06 | 3.75 | 4.65 | 5.84 | - | - | - | - |
| 20 | - | 2.36 | 2.86 | 3.48 | 4.24 | 5.22 | 6.51 | - | - |
| 30 | - | 1.83 | 2.21 | 2.65 | 3.18 | 3.81 | 4.60 | 5.59 | 6.88 |
| 40 | - | - | 1.70 | 2.03 | 2.40 | 2.83 | 3.34 | 3.95 | 4.71 |
| 50 | - | - | - | 1.53 | 1.80 | 2.10 | 2.44 | 2.84 | 3.31 |
| 60 | - | - | - | - | 1.31 | 1.52 | 1.76 | 2.03 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 528 | W |
| Power input | 3 622 | W |
| Current consumption | 7.05 | A |
| Mass flow | 171 | kg/h |
| C.O.P. | 2.08 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

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

Sound power data

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

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R449A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | 4 468 | 6 051 | 8 021 | 10 420 | 13 285 | - | - | - | - |
| 20 | 3 610 | 5 033 | 6 803 | 8 960 | 11 544 | 14 593 | 18 146 | - | - |
| 30 | 2 807 | 4 062 | 5 624 | 7 533 | 9 827 | 12 546 | 15 729 | 19 415 | 23 644 |
| 40 | 2 075 | 3 154 | 4 500 | 6 152 | 8 149 | 10 530 | 13 335 | 16 602 | 20 371 |
| 50 | - | 2 324 | 3 447 | 4 834 | 6 526 | 8 561 | 10 979 | 13 819 | 17 120 |
| 60 | - | - | 2 477 | 3 592 | 4 971 | 6 652 | 8 676 | 11 081 | 13 907 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 1 762 | 1 970 | 2 129 | 2 230 | 2 262 | - | - | - | - |
| 20 | 1 873 | 2 151 | 2 393 | 2 587 | 2 724 | 2 793 | 2 784 | - | - |
| 30 | 1 919 | 2 269 | 2 594 | 2 882 | 3 125 | 3 312 | 3 433 | 3 477 | 3 435 |
| 40 | 1 904 | 2 327 | 2 735 | 3 120 | 3 470 | 3 776 | 4 027 | 4 213 | 4 325 |
| 50 | - | 2 327 | 2 821 | 3 302 | 3 761 | 4 187 | 4 570 | 4 899 | 5 166 |
| 60 | - | - | 2 853 | 3 433 | 4 001 | 4 548 | 5 064 | 5 538 | 5 961 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|-------|
| 10 | 7.68 | 7.93 | 8.09 | 8.13 | 8.02 | - | - | - | - |
| 20 | 6.07 | 6.39 | 6.68 | 6.90 | 7.01 | 7.00 | 6.82 | - | - |
| 30 | 5.34 | 5.70 | 6.06 | 6.41 | 6.71 | 6.93 | 7.04 | 7.00 | 6.79 |
| 40 | 5.26 | 5.59 | 6.00 | 6.44 | 6.88 | 7.28 | 7.63 | 7.89 | 8.02 |
| 50 | - | 5.84 | 6.24 | 6.72 | 7.25 | 7.80 | 8.35 | 8.85 | 9.28 |
| 60 | - | - | 6.54 | 7.01 | 7.60 | 8.25 | 8.94 | 9.64 | 10.32 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 86 | 116 | 153 | 195 | 245 | - | - | - | - |
| 20 | 76 | 105 | 140 | 182 | 230 | 286 | 351 | - | - |
| 30 | 65 | 93 | 127 | 167 | 214 | 269 | 332 | 403 | 485 |
| 40 | 54 | 81 | 113 | 152 | 197 | 250 | 311 | 381 | 460 |
| 50 | - | 68 | 98 | 135 | 178 | 229 | 288 | 356 | 433 |
| 60 | - | - | 83 | 118 | 159 | 207 | 264 | 330 | 404 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.54 | 3.07 | 3.77 | 4.67 | 5.87 | - | - | - | - |
| 20 | 1.93 | 2.34 | 2.84 | 3.46 | 4.24 | 5.23 | 6.52 | - | - |
| 30 | 1.46 | 1.79 | 2.17 | 2.61 | 3.14 | 3.79 | 4.58 | 5.58 | 6.88 |
| 40 | 1.09 | 1.36 | 1.65 | 1.97 | 2.35 | 2.79 | 3.31 | 3.94 | 4.71 |
| 50 | - | 1.00 | 1.22 | 1.46 | 1.74 | 2.04 | 2.40 | 2.82 | 3.31 |
| 60 | - | - | 0.87 | 1.05 | 1.24 | 1.46 | 1.71 | 2.00 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 330 | W |
| Power input | 3 622 | W |
| Current consumption | 7.05 | A |
| Mass flow | 188 | kg/h |
| C.O.P. | 2.02 | |

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

Sound power data

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

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R452A

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | - | 7 078 | 9 072 | 11 483 | 14 346 | - | - | - | - |
| 20 | - | 6 052 | 7 886 | 10 085 | 12 686 | 15 724 | 19 242 | - | - |
| 30 | - | 5 034 | 6 687 | 8 656 | 10 973 | 13 673 | 16 793 | 20 374 | 24 467 |
| 40 | - | 4 027 | 5 480 | 7 197 | 9 211 | 11 553 | 14 257 | 17 357 | 20 894 |
| 50 | - | - | 4 268 | 5 715 | 7 407 | 9 372 | 11 640 | 14 241 | 17 205 |
| 60 | - | - | - | 4 215 | 5 567 | 7 139 | 8 955 | 11 038 | 13 408 |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | - | 2 640 | 2 896 | 3 136 | 3 369 | - | - | - | - |
| 20 | - | 2 621 | 2 898 | 3 148 | 3 379 | 3 597 | 3 811 | - | - |
| 30 | - | 2 652 | 2 983 | 3 276 | 3 538 | 3 777 | 3 999 | 4 211 | 4 422 |
| 40 | - | 2 695 | 3 114 | 3 483 | 3 810 | 4 102 | 4 366 | 4 609 | 4 839 |
| 50 | - | - | 3 254 | 3 733 | 4 158 | 4 536 | 4 876 | 5 183 | 5 465 |
| 60 | - | - | - | 3 988 | 4 544 | 5 043 | 5 491 | 5 895 | 6 264 |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|-------|-------|
| 10 | - | 8.70 | 9.14 | 9.54 | 9.88 | - | - | - | - |
| 20 | - | 6.80 | 7.23 | 7.61 | 7.95 | 8.26 | 8.56 | - | - |
| 30 | - | 6.00 | 6.45 | 6.85 | 7.21 | 7.56 | 7.89 | 8.22 | 8.57 |
| 40 | - | 5.92 | 6.41 | 6.85 | 7.28 | 7.68 | 8.08 | 8.49 | 8.91 |
| 50 | - | - | 6.69 | 7.22 | 7.73 | 8.23 | 8.73 | 9.24 | 9.77 |
| 60 | - | - | - | 7.55 | 8.18 | 8.80 | 9.42 | 10.07 | 10.74 |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | - | 143 | 185 | 236 | 296 | - | - | - | - |
| 20 | - | 134 | 175 | 225 | 285 | 355 | 439 | - | - |
| 30 | - | 122 | 163 | 212 | 271 | 340 | 422 | 519 | 633 |
| 40 | - | 109 | 149 | 197 | 253 | 321 | 400 | 495 | 606 |
| 50 | - | - | 132 | 178 | 233 | 298 | 375 | 467 | 575 |
| 60 | - | - | - | 157 | 210 | 272 | 346 | 434 | 538 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 10 | - | 2.68 | 3.13 | 3.66 | 4.26 | - | - | - | - |
| 20 | - | 2.31 | 2.72 | 3.20 | 3.75 | 4.37 | 5.05 | - | - |
| 30 | - | 1.90 | 2.24 | 2.64 | 3.10 | 3.62 | 4.20 | 4.84 | 5.53 |
| 40 | - | 1.49 | 1.76 | 2.07 | 2.42 | 2.82 | 3.27 | 3.77 | 4.32 |
| 50 | - | - | 1.31 | 1.53 | 1.78 | 2.07 | 2.39 | 2.75 | 3.15 |
| 60 | - | - | - | 1.06 | 1.23 | 1.42 | 1.63 | 1.87 | 2.14 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 314 | W |
| Power input | 3 977 | W |
| Current consumption | 7.48 | A |
| Mass flow | 244 | kg/h |
| C.O.P. | 2.09 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

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

Sound power data

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

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R452A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | 5 288 | 6 891 | 8 883 | 11 304 | 14 195 | - | - | - | - |
| 20 | 4 319 | 5 793 | 7 610 | 9 809 | 12 430 | 15 511 | 19 093 | - | - |
| 30 | 3 391 | 4 716 | 6 336 | 8 291 | 10 621 | 13 363 | 16 559 | 20 247 | 24 467 |
| 40 | 2 515 | 3 668 | 5 069 | 6 758 | 8 774 | 11 156 | 13 944 | 17 177 | 20 894 |
| 50 | 1 696 | 2 656 | 3 817 | 5 218 | 6 898 | 8 898 | 11 256 | 14 012 | 17 205 |
| 60 | - | 1 688 | 2 587 | 3 678 | 5 001 | 6 597 | 8 503 | 10 761 | 13 408 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 2 361 | 2 640 | 2 896 | 3 136 | 3 369 | - | - | - | - |
| 20 | 2 310 | 2 621 | 2 898 | 3 148 | 3 379 | 3 597 | 3 811 | - | - |
| 30 | 2 276 | 2 652 | 2 983 | 3 276 | 3 538 | 3 777 | 3 999 | 4 211 | 4 422 |
| 40 | 2 220 | 2 695 | 3 114 | 3 483 | 3 810 | 4 102 | 4 366 | 4 609 | 4 839 |
| 50 | 2 108 | 2 715 | 3 254 | 3 733 | 4 158 | 4 536 | 4 876 | 5 183 | 5 465 |
| 60 | - | 2 673 | 3 367 | 3 988 | 4 544 | 5 043 | 5 491 | 5 895 | 6 264 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 10 | 8.18 | 8.70 | 9.14 | 9.54 | 9.88 | - | - | - | - |
| 20 | 6.30 | 6.80 | 7.23 | 7.61 | 7.95 | 8.26 | 8.56 | - | - |
| 30 | 5.50 | 6.00 | 6.45 | 6.85 | 7.21 | 7.56 | 7.89 | 8.22 | 8.57 |
| 40 | 5.38 | 5.92 | 6.41 | 6.85 | 7.28 | 7.68 | 8.08 | 8.49 | 8.91 |
| 50 | 5.53 | 6.13 | 6.69 | 7.22 | 7.73 | 8.23 | 8.73 | 9.24 | 9.77 |
| 60 | - | 6.25 | 6.91 | 7.55 | 8.18 | 8.80 | 9.42 | 10.07 | 10.74 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 129 | 167 | 212 | 264 | 326 | - | - | - | - |
| 20 | 118 | 156 | 201 | 253 | 313 | 383 | 463 | - | - |
| 30 | 105 | 142 | 187 | 238 | 298 | 366 | 444 | 533 | 633 |
| 40 | 89 | 127 | 170 | 221 | 279 | 346 | 422 | 509 | 606 |
| 50 | 72 | 109 | 151 | 200 | 256 | 321 | 396 | 480 | 575 |
| 60 | - | 88 | 129 | 176 | 231 | 293 | 365 | 446 | 538 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.24 | 2.61 | 3.07 | 3.60 | 4.21 | - | - | - | - |
| 20 | 1.87 | 2.21 | 2.63 | 3.12 | 3.68 | 4.31 | 5.01 | - | - |
| 30 | 1.49 | 1.78 | 2.12 | 2.53 | 3.00 | 3.54 | 4.14 | 4.81 | 5.53 |
| 40 | 1.13 | 1.36 | 1.63 | 1.94 | 2.30 | 2.72 | 3.19 | 3.73 | 4.32 |
| 50 | 0.80 | 0.98 | 1.17 | 1.40 | 1.66 | 1.96 | 2.31 | 2.70 | 3.15 |
| 60 | - | 0.63 | 0.77 | 0.92 | 1.10 | 1.31 | 1.55 | 1.83 | 2.14 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 7 839 | W |
| Power input | 3 977 | W |
| Current consumption | 7.48 | A |
| Mass flow | 268 | kg/h |
| C.O.P. | 1.97 | |

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

Sound power data

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

Tolerance according EN12900

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 60 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 7 260 | 9 715 | 12 611 | 16 000 | 19 940 | 24 487 | 29 695 | - | - |
| 40 | 6 687 | 9 044 | 11 807 | 15 031 | 18 773 | 23 086 | 28 027 | - | - |
| 45 | 6 081 | 8 326 | 10 943 | 13 989 | 17 518 | 21 585 | 26 246 | - | - |
| 50 | - | 7 576 | 10 035 | 12 889 | 16 192 | 19 999 | 24 366 | - | - |
| 55 | - | - | 9 097 | 11 745 | 14 809 | 18 343 | 22 401 | - | - |
| 60 | - | - | - | 10 572 | 13 383 | 16 629 | 20 366 | - | - |
| 65 | - | - | - | 9 382 | 11 926 | 14 872 | 18 272 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 396 | 3 737 | 4 031 | 4 294 | 4 543 | 4 792 | 5 057 | - | - |
| 40 | 3 541 | 3 951 | 4 303 | 4 614 | 4 899 | 5 173 | 5 453 | - | - |
| 45 | 3 644 | 4 136 | 4 560 | 4 931 | 5 266 | 5 579 | 5 887 | - | - |
| 50 | - | 4 283 | 4 791 | 5 237 | 5 634 | 6 000 | 6 349 | - | - |
| 55 | - | - | 4 987 | 5 520 | 5 994 | 6 424 | 6 828 | - | - |
| 60 | - | - | - | 5 771 | 6 335 | 6 844 | 7 316 | - | - |
| 65 | - | - | - | 5 982 | 6 648 | 7 249 | 7 802 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 5.85 | 6.15 | 6.41 | 6.63 | 6.83 | 7.03 | 7.24 | - | - |
| 40 | 6.02 | 6.43 | 6.78 | 7.09 | 7.37 | 7.64 | 7.92 | - | - |
| 45 | 6.13 | 6.65 | 7.11 | 7.51 | 7.89 | 8.24 | 8.58 | - | - |
| 50 | - | 6.82 | 7.39 | 7.90 | 8.37 | 8.81 | 9.24 | - | - |
| 55 | - | - | 7.62 | 8.25 | 8.82 | 9.36 | 9.88 | - | - |
| 60 | - | - | - | 8.55 | 9.24 | 9.88 | 10.49 | - | - |
| 65 | - | - | - | 8.80 | 9.61 | 10.37 | 11.09 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 157 | 207 | 265 | 330 | 406 | 491 | 588 | - | - |
| 40 | 152 | 203 | 260 | 326 | 400 | 485 | 581 | - | - |
| 45 | 146 | 197 | 254 | 319 | 393 | 477 | 572 | - | - |
| 50 | - | 190 | 247 | 311 | 384 | 467 | 560 | - | - |
| 55 | - | - | 238 | 301 | 373 | 454 | 545 | - | - |
| 60 | - | - | - | 291 | 361 | 440 | 529 | - | - |
| 65 | - | - | - | 279 | 347 | 424 | 511 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.14 | 2.60 | 3.13 | 3.73 | 4.39 | 5.11 | 5.87 | - | - |
| 40 | 1.89 | 2.29 | 2.74 | 3.26 | 3.83 | 4.46 | 5.14 | - | - |
| 45 | 1.67 | 2.01 | 2.40 | 2.84 | 3.33 | 3.87 | 4.46 | - | - |
| 50 | - | 1.77 | 2.09 | 2.46 | 2.87 | 3.33 | 3.84 | - | - |
| 55 | - | - | 1.82 | 2.13 | 2.47 | 2.86 | 3.28 | - | - |
| 60 | - | - | - | 1.83 | 2.11 | 2.43 | 2.78 | - | - |
| 65 | - | - | - | 1.57 | 1.79 | 2.05 | 2.34 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 16 192 | W |
| Power input | 5 634 | W |
| Current consumption | 8.37 | A |
| Mass flow | 384 | kg/h |
| C.O.P. | 2.87 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 80 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 7 814 | 10 444 | 13 541 | 17 161 | 21 364 | 26 207 | 31 749 | - | - |
| 40 | 7 237 | 9 774 | 12 744 | 16 203 | 20 212 | 24 827 | 30 108 | - | - |
| 45 | 6 623 | 9 054 | 11 883 | 15 168 | 18 969 | 23 343 | 28 349 | - | - |
| 50 | - | 8 299 | 10 974 | 14 072 | 17 651 | 21 770 | 26 487 | - | - |
| 55 | - | - | 10 033 | 12 930 | 16 275 | 20 125 | 24 540 | - | - |
| 60 | - | - | - | 11 759 | 14 855 | 18 423 | 22 522 | - | - |
| 65 | - | - | - | 10 573 | 13 407 | 16 679 | 20 449 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 396 | 3 737 | 4 031 | 4 294 | 4 543 | 4 792 | 5 057 | - | - |
| 40 | 3 541 | 3 951 | 4 303 | 4 614 | 4 899 | 5 173 | 5 453 | - | - |
| 45 | 3 644 | 4 136 | 4 560 | 4 931 | 5 266 | 5 579 | 5 887 | - | - |
| 50 | - | 4 283 | 4 791 | 5 237 | 5 634 | 6 000 | 6 349 | - | - |
| 55 | - | - | 4 987 | 5 520 | 5 994 | 6 424 | 6 828 | - | - |
| 60 | - | - | - | 5 771 | 6 335 | 6 844 | 7 316 | - | - |
| 65 | - | - | - | 5 982 | 6 648 | 7 249 | 7 802 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 5.85 | 6.15 | 6.41 | 6.63 | 6.83 | 7.03 | 7.24 | - | - |
| 40 | 6.02 | 6.43 | 6.78 | 7.09 | 7.37 | 7.64 | 7.92 | - | - |
| 45 | 6.13 | 6.65 | 7.11 | 7.51 | 7.89 | 8.24 | 8.58 | - | - |
| 50 | - | 6.82 | 7.39 | 7.90 | 8.37 | 8.81 | 9.24 | - | - |
| 55 | - | - | 7.62 | 8.25 | 8.82 | 9.36 | 9.88 | - | - |
| 60 | - | - | - | 8.55 | 9.24 | 9.88 | 10.49 | - | - |
| 65 | - | - | - | 8.80 | 9.61 | 10.37 | 11.09 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 157 | 206 | 263 | 329 | 403 | 488 | 584 | - | - |
| 40 | 152 | 202 | 259 | 324 | 398 | 482 | 578 | - | - |
| 45 | 146 | 196 | 253 | 317 | 391 | 474 | 568 | - | - |
| 50 | - | 189 | 245 | 309 | 382 | 464 | 556 | - | - |
| 55 | - | - | 237 | 300 | 371 | 452 | 542 | - | - |
| 60 | - | - | - | 289 | 359 | 437 | 526 | - | - |
| 65 | - | - | - | 277 | 345 | 422 | 508 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.30 | 2.80 | 3.36 | 4.00 | 4.70 | 5.47 | 6.28 | - | - |
| 40 | 2.04 | 2.47 | 2.96 | 3.51 | 4.13 | 4.80 | 5.52 | - | - |
| 45 | 1.82 | 2.19 | 2.61 | 3.08 | 3.60 | 4.18 | 4.82 | - | - |
| 50 | - | 1.94 | 2.29 | 2.69 | 3.13 | 3.63 | 4.17 | - | - |
| 55 | - | - | 2.01 | 2.34 | 2.72 | 3.13 | 3.59 | - | - |
| 60 | - | - | - | 2.04 | 2.34 | 2.69 | 3.08 | - | - |
| 65 | - | - | - | 1.77 | 2.02 | 2.30 | 2.62 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 18 085 | W |
| Power input | 6 141 | W |
| Current consumption | 9.01 | A |
| Mass flow | 407 | kg/h |
| C.O.P. | 2.94 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 80 | dB(A) |

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 35 | 2 197 | 3 216 | 6 166 | 8 209 | 10 708 | 13 718 | 17 296 | 21 499 | 26 382 |
| 40 | 1 879 | 2 834 | 5 590 | 7 503 | 9 848 | 12 683 | 16 063 | 20 045 | 24 686 |
| 45 | 1 577 | 2 469 | 5 031 | 6 813 | 9 006 | 11 665 | 14 848 | 18 610 | 23 009 |
| 50 | 1 292 | 2 121 | 4 489 | 6 142 | 8 182 | 10 666 | 13 651 | 17 194 | 21 350 |
| 55 | - | - | 3 967 | 5 489 | 7 377 | 9 686 | 12 474 | 15 798 | 19 712 |
| 60 | - | - | - | 4 856 | 6 591 | 8 727 | 11 318 | 14 422 | 18 095 |
| 65 | - | - | - | - | 5 827 | 7 787 | 10 182 | 13 067 | 16 499 |
| 75 | - | - | - | - | - | - | 7 976 | 10 424 | 13 374 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 540 | 1 890 | 2 481 | 2 721 | 2 921 | 3 081 | 3 200 | 3 276 | 3 309 |
| 40 | 1 490 | 1 877 | 2 545 | 2 823 | 3 063 | 3 263 | 3 422 | 3 539 | 3 613 |
| 45 | 1 418 | 1 846 | 2 599 | 2 920 | 3 203 | 3 447 | 3 650 | 3 811 | 3 929 |
| 50 | 1 321 | 1 795 | 2 639 | 3 006 | 3 336 | 3 627 | 3 878 | 4 088 | 4 255 |
| 55 | - | - | 2 662 | 3 080 | 3 460 | 3 802 | 4 105 | 4 366 | 4 585 |
| 60 | - | - | - | 3 135 | 3 571 | 3 967 | 4 325 | 4 642 | 4 918 |
| 65 | - | - | - | - | 3 664 | 4 119 | 4 536 | 4 913 | 5 248 |
| 75 | - | - | - | - | - | - | 4 915 | 5 421 | 5 888 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.63 | 5.68 | 5.90 | 6.06 | 6.23 | 6.40 | 6.57 | 6.72 | 6.83 |
| 40 | 5.54 | 5.63 | 5.93 | 6.11 | 6.31 | 6.50 | 6.68 | 6.83 | 6.94 |
| 45 | 5.41 | 5.56 | 5.96 | 6.19 | 6.42 | 6.64 | 6.84 | 7.01 | 7.14 |
| 50 | 5.23 | 5.45 | 5.98 | 6.26 | 6.54 | 6.81 | 7.05 | 7.26 | 7.41 |
| 55 | - | - | 5.97 | 6.33 | 6.67 | 7.00 | 7.29 | 7.54 | 7.74 |
| 60 | - | - | - | 6.36 | 6.79 | 7.18 | 7.54 | 7.86 | 8.11 |
| 65 | - | - | - | - | 6.88 | 7.36 | 7.80 | 8.18 | 8.51 |
| 75 | - | - | - | - | - | - | 8.25 | 8.83 | 9.33 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 56 | 80 | 147 | 191 | 244 | 306 | 378 | 463 | 560 |
| 40 | 50 | 75 | 140 | 183 | 235 | 297 | 368 | 452 | 547 |
| 45 | 45 | 69 | 133 | 176 | 227 | 287 | 358 | 440 | 535 |
| 50 | 39 | 63 | 126 | 167 | 218 | 277 | 347 | 429 | 522 |
| 55 | - | - | 118 | 159 | 209 | 267 | 336 | 417 | 509 |
| 60 | - | - | - | 151 | 199 | 257 | 325 | 404 | 496 |
| 65 | - | - | - | - | 190 | 246 | 313 | 392 | 482 |
| 75 | - | - | - | - | - | - | 289 | 365 | 453 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.43 | 1.70 | 2.49 | 3.02 | 3.67 | 4.45 | 5.40 | 6.56 | 7.97 |
| 40 | 1.26 | 1.51 | 2.20 | 2.66 | 3.21 | 3.89 | 4.69 | 5.66 | 6.83 |
| 45 | 1.11 | 1.34 | 1.94 | 2.33 | 2.81 | 3.38 | 4.07 | 4.88 | 5.86 |
| 50 | 0.98 | 1.18 | 1.70 | 2.04 | 2.45 | 2.94 | 3.52 | 4.21 | 5.02 |
| 55 | - | - | 1.49 | 1.78 | 2.13 | 2.55 | 3.04 | 3.62 | 4.30 |
| 60 | - | - | - | 1.55 | 1.85 | 2.20 | 2.62 | 3.11 | 3.68 |
| 65 | - | - | - | - | 1.59 | 1.89 | 2.24 | 2.66 | 3.14 |
| 75 | - | - | - | - | - | - | 1.62 | 1.92 | 2.27 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 666 | W |
| Power input | 3 627 | W |
| Current consumption | 6.81 | A |
| Mass flow | 277 | kg/h |
| C.O.P. | 2.94 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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 60 Hz, ARI rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 35 | 2 388 | 3 489 | 6 667 | 8 862 | 11 541 | 14 764 | 18 588 | 23 072 | 28 276 |
| 40 | 2 054 | 3 093 | 6 075 | 8 140 | 10 666 | 13 714 | 17 341 | 21 608 | 26 572 |
| 45 | 1 736 | 2 712 | 5 501 | 7 435 | 9 808 | 12 681 | 16 112 | 20 161 | 24 887 |
| 50 | - | 2 347 | 4 943 | 6 746 | 8 968 | 11 666 | 14 902 | 18 734 | 23 222 |
| 55 | - | - | 4 403 | 6 076 | 8 146 | 10 671 | 13 711 | 17 327 | 21 578 |
| 60 | - | - | - | 5 425 | 7 343 | 9 695 | 12 542 | 15 943 | 19 958 |
| 65 | - | - | - | - | - | 8 741 | 11 395 | 14 582 | 18 364 |
| 75 | - | - | - | - | - | - | 9 178 | 11 947 | 15 271 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 540 | 1 890 | 2 481 | 2 721 | 2 921 | 3 081 | 3 200 | 3 276 | 3 309 |
| 40 | 1 490 | 1 877 | 2 545 | 2 823 | 3 063 | 3 263 | 3 422 | 3 539 | 3 613 |
| 45 | 1 418 | 1 846 | 2 599 | 2 920 | 3 203 | 3 447 | 3 650 | 3 811 | 3 929 |
| 50 | - | 1 795 | 2 639 | 3 006 | 3 336 | 3 627 | 3 878 | 4 088 | 4 255 |
| 55 | - | - | 2 662 | 3 080 | 3 460 | 3 802 | 4 105 | 4 366 | 4 585 |
| 60 | - | - | - | 3 135 | 3 571 | 3 967 | 4 325 | 4 642 | 4 918 |
| 65 | - | - | - | - | - | 4 119 | 4 536 | 4 913 | 5 248 |
| 75 | - | - | - | - | - | - | 4 915 | 5 421 | 5 888 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.63 | 5.68 | 5.90 | 6.06 | 6.23 | 6.40 | 6.57 | 6.72 | 6.83 |
| 40 | 5.54 | 5.63 | 5.93 | 6.11 | 6.31 | 6.50 | 6.68 | 6.83 | 6.94 |
| 45 | 5.41 | 5.56 | 5.96 | 6.19 | 6.42 | 6.64 | 6.84 | 7.01 | 7.14 |
| 50 | - | 5.45 | 5.98 | 6.26 | 6.54 | 6.81 | 7.05 | 7.26 | 7.41 |
| 55 | - | - | 5.97 | 6.33 | 6.67 | 7.00 | 7.29 | 7.54 | 7.74 |
| 60 | - | - | - | 6.36 | 6.79 | 7.18 | 7.54 | 7.86 | 8.11 |
| 65 | - | - | - | - | - | 7.36 | 7.80 | 8.18 | 8.51 |
| 75 | - | - | - | - | - | - | 8.25 | 8.83 | 9.33 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 55 | 80 | 146 | 190 | 242 | 304 | 376 | 460 | 556 |
| 40 | 50 | 74 | 139 | 182 | 234 | 295 | 366 | 449 | 544 |
| 45 | 45 | 68 | 132 | 175 | 225 | 286 | 356 | 438 | 532 |
| 50 | - | 62 | 125 | 167 | 217 | 276 | 345 | 426 | 519 |
| 55 | - | - | 117 | 158 | 208 | 266 | 334 | 414 | 506 |
| 60 | - | - | - | 150 | 198 | 256 | 323 | 402 | 493 |
| 65 | - | - | - | - | - | 245 | 312 | 389 | 479 |
| 75 | - | - | - | - | - | - | 288 | 363 | 451 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.55 | 1.85 | 2.69 | 3.26 | 3.95 | 4.79 | 5.81 | 7.04 | 8.55 |
| 40 | 1.38 | 1.65 | 2.39 | 2.88 | 3.48 | 4.20 | 5.07 | 6.11 | 7.36 |
| 45 | 1.22 | 1.47 | 2.12 | 2.55 | 3.06 | 3.68 | 4.41 | 5.29 | 6.33 |
| 50 | - | 1.31 | 1.87 | 2.24 | 2.69 | 3.22 | 3.84 | 4.58 | 5.46 |
| 55 | - | - | 1.65 | 1.97 | 2.35 | 2.81 | 3.34 | 3.97 | 4.71 |
| 60 | - | - | - | 1.73 | 2.06 | 2.44 | 2.90 | 3.43 | 4.06 |
| 65 | - | - | - | - | - | 2.12 | 2.51 | 2.97 | 3.50 |
| 75 | - | - | - | - | - | - | 1.87 | 2.20 | 2.59 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 12 070 | W |
| Power input | 3 917 | W |
| Current consumption | 7.10 | A |
| Mass flow | 296 | kg/h |
| C.O.P. | 3.08 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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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Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 30 | 4 428 | 6 104 | 8 143 | 10 592 | 13 496 | 16 904 | 20 863 | 25 419 | 30 621 |
| 35 | 3 831 | 5 409 | 7 320 | 9 609 | 12 323 | 15 511 | 19 218 | 23 493 | 28 382 |
| 40 | 3 230 | 4 702 | 6 474 | 8 595 | 11 110 | 14 068 | 17 515 | 21 499 | 26 066 |
| 45 | 2 634 | 3 988 | 5 613 | 7 557 | 9 864 | 12 583 | 15 761 | 19 444 | 23 680 |
| 50 | 2 047 | 3 276 | 4 745 | 6 501 | 8 592 | 11 062 | 13 961 | 17 335 | 21 230 |
| 55 | - | 2 572 | 3 876 | 5 436 | 7 300 | 9 513 | 12 124 | 15 179 | 18 725 |
| 60 | - | 1 883 | 3 012 | 4 367 | 5 995 | 7 942 | 10 256 | 12 982 | 16 169 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 3 021 | 3 487 | 3 901 | 4 273 | 4 610 | 4 922 | 5 220 | 5 511 | 5 805 |
| 35 | 3 011 | 3 545 | 4 020 | 4 446 | 4 832 | 5 187 | 5 520 | 5 842 | 6 160 |
| 40 | 2 951 | 3 560 | 4 104 | 4 593 | 5 035 | 5 440 | 5 818 | 6 177 | 6 527 |
| 45 | 2 833 | 3 525 | 4 145 | 4 704 | 5 211 | 5 674 | 6 104 | 6 509 | 6 898 |
| 50 | 2 649 | 3 431 | 4 136 | 4 773 | 5 351 | 5 881 | 6 370 | 6 828 | 7 265 |
| 55 | - | 3 269 | 4 067 | 4 790 | 5 448 | 6 051 | 6 608 | 7 128 | 7 620 |
| 60 | - | 3 033 | 3 930 | 4 747 | 5 493 | 6 178 | 6 810 | 7 399 | 7 954 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 30 | 5.23 | 5.75 | 6.27 | 6.77 | 7.25 | 7.69 | 8.11 | 8.48 | 8.80 |
| 35 | 5.24 | 5.80 | 6.36 | 6.89 | 7.40 | 7.87 | 8.31 | 8.69 | 9.03 |
| 40 | 5.20 | 5.83 | 6.44 | 7.02 | 7.57 | 8.09 | 8.56 | 8.99 | 9.35 |
| 45 | 5.10 | 5.80 | 6.48 | 7.14 | 7.76 | 8.33 | 8.86 | 9.34 | 9.75 |
| 50 | 4.92 | 5.71 | 6.48 | 7.22 | 7.92 | 8.58 | 9.18 | 9.73 | 10.21 |
| 55 | - | 5.54 | 6.41 | 7.26 | 8.05 | 8.80 | 9.50 | 10.13 | 10.70 |
| 60 | - | 5.25 | 6.26 | 7.22 | 8.13 | 9.00 | 9.80 | 10.54 | 11.20 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 139 | 188 | 244 | 310 | 385 | 471 | 569 | 680 | 805 |
| 35 | 130 | 179 | 235 | 300 | 375 | 460 | 557 | 667 | 791 |
| 40 | 119 | 168 | 224 | 289 | 363 | 448 | 544 | 653 | 776 |
| 45 | 106 | 155 | 211 | 276 | 350 | 434 | 529 | 636 | 758 |
| 50 | 92 | 141 | 197 | 261 | 334 | 417 | 511 | 618 | 737 |
| 55 | - | 125 | 180 | 244 | 316 | 398 | 491 | 596 | 714 |
| 60 | - | 106 | 162 | 225 | 296 | 377 | 469 | 573 | 689 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.47 | 1.75 | 2.09 | 2.48 | 2.93 | 3.43 | 4.00 | 4.61 | 5.28 |
| 35 | 1.27 | 1.53 | 1.82 | 2.16 | 2.55 | 2.99 | 3.48 | 4.02 | 4.61 |
| 40 | 1.09 | 1.32 | 1.58 | 1.87 | 2.21 | 2.59 | 3.01 | 3.48 | 3.99 |
| 45 | 0.93 | 1.13 | 1.35 | 1.61 | 1.89 | 2.22 | 2.58 | 2.99 | 3.43 |
| 50 | 0.77 | 0.95 | 1.15 | 1.36 | 1.61 | 1.88 | 2.19 | 2.54 | 2.92 |
| 55 | - | 0.79 | 0.95 | 1.13 | 1.34 | 1.57 | 1.83 | 2.13 | 2.46 |
| 60 | - | 0.62 | 0.77 | 0.92 | 1.09 | 1.29 | 1.51 | 1.75 | 2.03 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 864 | W |
| Power input | 5 211 | W |
| Current consumption | 7.76 | A |
| Mass flow | 350 | kg/h |
| C.O.P. | 1.89 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 84 | dB(A) |
| With acoustic hood | 78 | dB(A) |

Tolerance according EN12900

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 60 Hz, ARI rating conditions
R404A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 30 | 4 929 | 6 777 | 9 017 | 11 699 | 14 874 | 18 589 | 22 895 | 27 840 | 33 475 |
| 35 | 4 310 | 6 067 | 8 185 | 10 714 | 13 705 | 17 206 | 21 268 | 25 941 | 31 273 |
| 40 | 3 683 | 5 339 | 7 326 | 9 694 | 12 492 | 15 772 | 19 582 | 23 973 | 28 995 |
| 45 | 3 052 | 4 601 | 6 449 | 8 646 | 11 244 | 14 293 | 17 844 | 21 947 | 26 652 |
| 50 | 2 425 | 3 858 | 5 559 | 7 578 | 9 968 | 12 781 | 16 066 | 19 874 | 24 257 |
| 55 | - | 3 117 | 4 664 | 6 500 | 8 677 | 11 247 | 14 261 | 17 772 | 21 830 |
| 60 | - | 2 381 | 3 772 | 5 421 | 7 383 | 9 710 | 12 456 | 15 671 | 19 409 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 3 021 | 3 487 | 3 901 | 4 273 | 4 610 | 4 922 | 5 220 | 5 511 | 5 805 |
| 35 | 3 011 | 3 545 | 4 020 | 4 446 | 4 832 | 5 187 | 5 520 | 5 842 | 6 160 |
| 40 | 2 951 | 3 560 | 4 104 | 4 593 | 5 035 | 5 440 | 5 818 | 6 177 | 6 527 |
| 45 | 2 833 | 3 525 | 4 145 | 4 704 | 5 211 | 5 674 | 6 104 | 6 509 | 6 898 |
| 50 | 2 649 | 3 431 | 4 136 | 4 773 | 5 351 | 5 881 | 6 370 | 6 828 | 7 265 |
| 55 | - | 3 269 | 4 067 | 4 790 | 5 448 | 6 051 | 6 608 | 7 128 | 7 620 |
| 60 | - | 3 033 | 3 930 | 4 747 | 5 493 | 6 178 | 6 810 | 7 399 | 7 954 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 30 | 5.23 | 5.75 | 6.27 | 6.77 | 7.25 | 7.69 | 8.11 | 8.48 | 8.80 |
| 35 | 5.24 | 5.80 | 6.36 | 6.89 | 7.40 | 7.87 | 8.31 | 8.69 | 9.03 |
| 40 | 5.20 | 5.83 | 6.44 | 7.02 | 7.57 | 8.09 | 8.56 | 8.99 | 9.35 |
| 45 | 5.10 | 5.80 | 6.48 | 7.14 | 7.76 | 8.33 | 8.86 | 9.34 | 9.75 |
| 50 | 4.92 | 5.71 | 6.48 | 7.22 | 7.92 | 8.58 | 9.18 | 9.73 | 10.21 |
| 55 | - | 5.54 | 6.41 | 7.26 | 8.05 | 8.80 | 9.50 | 10.13 | 10.70 |
| 60 | - | 5.25 | 6.26 | 7.22 | 8.13 | 9.00 | 9.80 | 10.54 | 11.20 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 139 | 187 | 243 | 308 | 383 | 468 | 565 | 676 | 800 |
| 35 | 129 | 178 | 234 | 298 | 373 | 457 | 554 | 663 | 786 |
| 40 | 118 | 167 | 223 | 287 | 361 | 445 | 541 | 649 | 770 |
| 45 | 105 | 154 | 210 | 274 | 348 | 431 | 525 | 632 | 752 |
| 50 | 91 | 140 | 196 | 259 | 332 | 415 | 508 | 614 | 732 |
| 55 | - | 124 | 179 | 243 | 314 | 396 | 488 | 593 | 710 |
| 60 | - | 106 | 161 | 223 | 294 | 375 | 466 | 569 | 684 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.63 | 1.94 | 2.31 | 2.74 | 3.23 | 3.78 | 4.39 | 5.05 | 5.77 |
| 35 | 1.43 | 1.71 | 2.04 | 2.41 | 2.84 | 3.32 | 3.85 | 4.44 | 5.08 |
| 40 | 1.25 | 1.50 | 1.79 | 2.11 | 2.48 | 2.90 | 3.37 | 3.88 | 4.44 |
| 45 | 1.08 | 1.31 | 1.56 | 1.84 | 2.16 | 2.52 | 2.92 | 3.37 | 3.86 |
| 50 | 0.92 | 1.12 | 1.34 | 1.59 | 1.86 | 2.17 | 2.52 | 2.91 | 3.34 |
| 55 | - | 0.95 | 1.15 | 1.36 | 1.59 | 1.86 | 2.16 | 2.49 | 2.87 |
| 60 | - | 0.79 | 0.96 | 1.14 | 1.34 | 1.57 | 1.83 | 2.12 | 2.44 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 11 244 | W |
| Power input | 5 211 | W |
| Current consumption | 7.76 | A |
| Mass flow | 348 | kg/h |
| C.O.P. | 2.16 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 84 | dB(A) |
| With acoustic hood | 78 | 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

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

R407A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 112 | 4 613 | 6 491 | 8 804 | 11 609 | 14 962 | 18 922 | 23 547 | 28 892 |
| 35 | 2 657 | 4 076 | 5 848 | 8 029 | 10 678 | 13 850 | 17 605 | 21 998 | 27 088 |
| 40 | 2 197 | 3 528 | 5 186 | 7 229 | 9 714 | 12 698 | 16 239 | 20 395 | 25 222 |
| 45 | 1 744 | 2 979 | 4 516 | 6 413 | 8 727 | 11 516 | 14 837 | 18 747 | 23 304 |
| 50 | - | 2 438 | 3 848 | 5 592 | 7 728 | 10 315 | 13 408 | 17 066 | 21 346 |
| 55 | - | - | 3 192 | 4 776 | 6 728 | 9 105 | 11 964 | 15 362 | 19 358 |
| 60 | - | - | - | 3 977 | 5 737 | 7 896 | 10 514 | 13 646 | 17 350 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 191 | 2 652 | 3 089 | 3 495 | 3 863 | 4 187 | 4 460 | 4 675 | 4 826 |
| 35 | 2 145 | 2 652 | 3 138 | 3 596 | 4 018 | 4 399 | 4 732 | 5 011 | 5 228 |
| 40 | 2 071 | 2 628 | 3 166 | 3 679 | 4 160 | 4 602 | 4 999 | 5 345 | 5 631 |
| 45 | 1 966 | 2 576 | 3 171 | 3 743 | 4 286 | 4 793 | 5 258 | 5 674 | 6 034 |
| 50 | - | 2 495 | 3 150 | 3 784 | 4 393 | 4 969 | 5 505 | 5 995 | 6 432 |
| 55 | - | - | 3 099 | 3 801 | 4 479 | 5 127 | 5 738 | 6 307 | 6 825 |
| 60 | - | - | - | 3 790 | 4 541 | 5 265 | 5 955 | 6 605 | 7 208 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 30 | 5.37 | 5.72 | 6.13 | 6.55 | 6.96 | 7.33 | 7.64 | 7.84 | 7.92 |
| 35 | 5.40 | 5.76 | 6.18 | 6.63 | 7.09 | 7.51 | 7.88 | 8.17 | 8.34 |
| 40 | 5.40 | 5.78 | 6.22 | 6.71 | 7.21 | 7.70 | 8.15 | 8.52 | 8.79 |
| 45 | 5.37 | 5.77 | 6.24 | 6.78 | 7.34 | 7.90 | 8.42 | 8.89 | 9.27 |
| 50 | - | 5.72 | 6.24 | 6.82 | 7.45 | 8.08 | 8.70 | 9.28 | 9.77 |
| 55 | - | - | 6.19 | 6.84 | 7.54 | 8.26 | 8.98 | 9.66 | 10.28 |
| 60 | - | - | - | 6.82 | 7.60 | 8.42 | 9.24 | 10.04 | 10.79 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 74 | 108 | 149 | 198 | 256 | 325 | 404 | 496 | 600 |
| 35 | 67 | 100 | 141 | 190 | 248 | 316 | 395 | 486 | 590 |
| 40 | 59 | 92 | 132 | 181 | 238 | 305 | 384 | 474 | 578 |
| 45 | 50 | 83 | 122 | 170 | 227 | 293 | 371 | 461 | 564 |
| 50 | - | 72 | 111 | 158 | 214 | 280 | 357 | 446 | 547 |
| 55 | - | - | 100 | 146 | 200 | 265 | 341 | 429 | 529 |
| 60 | - | - | - | 132 | 185 | 249 | 323 | 410 | 509 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.42 | 1.74 | 2.10 | 2.52 | 3.01 | 3.57 | 4.24 | 5.04 | 5.99 |
| 35 | 1.24 | 1.54 | 1.86 | 2.23 | 2.66 | 3.15 | 3.72 | 4.39 | 5.18 |
| 40 | 1.06 | 1.34 | 1.64 | 1.96 | 2.34 | 2.76 | 3.25 | 3.82 | 4.48 |
| 45 | 0.89 | 1.16 | 1.42 | 1.71 | 2.04 | 2.40 | 2.82 | 3.30 | 3.86 |
| 50 | - | 0.98 | 1.22 | 1.48 | 1.76 | 2.08 | 2.44 | 2.85 | 3.32 |
| 55 | - | - | 1.03 | 1.26 | 1.50 | 1.78 | 2.08 | 2.44 | 2.84 |
| 60 | - | - | - | 1.05 | 1.26 | 1.50 | 1.77 | 2.07 | 2.41 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 727 | W |
| Power input | 4 286 | W |
| Current consumption | 7.34 | A |
| Mass flow | 227 | kg/h |
| C.O.P. | 2.04 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 82 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

R407A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | 3 365 | 4 982 | 7 000 | 9 482 | 12 486 | 16 073 | 20 303 | 25 236 | 30 932 |
| 35 | 2 890 | 4 428 | 6 342 | 8 694 | 11 545 | 14 955 | 18 984 | 23 691 | 29 138 |
| 40 | 2 407 | 3 858 | 5 660 | 7 877 | 10 567 | 13 792 | 17 612 | 22 088 | 27 280 |
| 45 | 1 926 | 3 283 | 4 967 | 7 039 | 9 562 | 12 596 | 16 201 | 20 438 | 25 368 |
| 50 | - | 2 714 | 4 271 | 6 193 | 8 541 | 11 377 | 14 760 | 18 754 | 23 417 |
| 55 | - | - | 3 585 | 5 350 | 7 516 | 10 147 | 13 304 | 17 047 | 21 439 |
| 60 | - | - | - | 4 519 | 6 499 | 8 920 | 11 845 | 15 335 | 19 451 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 2 191 | 2 652 | 3 089 | 3 495 | 3 863 | 4 187 | 4 460 | 4 675 | 4 826 |
| 35 | 2 145 | 2 652 | 3 138 | 3 596 | 4 018 | 4 399 | 4 732 | 5 011 | 5 228 |
| 40 | 2 071 | 2 628 | 3 166 | 3 679 | 4 160 | 4 602 | 4 999 | 5 345 | 5 631 |
| 45 | 1 966 | 2 576 | 3 171 | 3 743 | 4 286 | 4 793 | 5 258 | 5 674 | 6 034 |
| 50 | - | 2 495 | 3 150 | 3 784 | 4 393 | 4 969 | 5 505 | 5 995 | 6 432 |
| 55 | - | - | 3 099 | 3 801 | 4 479 | 5 127 | 5 738 | 6 307 | 6 825 |
| 60 | - | - | - | 3 790 | 4 541 | 5 265 | 5 955 | 6 605 | 7 208 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 30 | 5.37 | 5.72 | 6.13 | 6.55 | 6.96 | 7.33 | 7.64 | 7.84 | 7.92 |
| 35 | 5.40 | 5.76 | 6.18 | 6.63 | 7.09 | 7.51 | 7.88 | 8.17 | 8.34 |
| 40 | 5.40 | 5.78 | 6.22 | 6.71 | 7.21 | 7.70 | 8.15 | 8.52 | 8.79 |
| 45 | 5.37 | 5.77 | 6.24 | 6.78 | 7.34 | 7.90 | 8.42 | 8.89 | 9.27 |
| 50 | - | 5.72 | 6.24 | 6.82 | 7.45 | 8.08 | 8.70 | 9.28 | 9.77 |
| 55 | - | - | 6.19 | 6.84 | 7.54 | 8.26 | 8.98 | 9.66 | 10.28 |
| 60 | - | - | - | 6.82 | 7.60 | 8.42 | 9.24 | 10.04 | 10.79 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 74 | 107 | 148 | 197 | 255 | 323 | 402 | 493 | 597 |
| 35 | 66 | 100 | 140 | 189 | 246 | 314 | 392 | 483 | 587 |
| 40 | 58 | 91 | 132 | 180 | 237 | 304 | 381 | 471 | 574 |
| 45 | 49 | 82 | 122 | 169 | 225 | 292 | 369 | 458 | 560 |
| 50 | - | 72 | 111 | 158 | 213 | 278 | 355 | 443 | 544 |
| 55 | - | - | 99 | 145 | 199 | 264 | 339 | 426 | 526 |
| 60 | - | - | - | 131 | 184 | 248 | 322 | 408 | 506 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.54 | 1.88 | 2.27 | 2.71 | 3.23 | 3.84 | 4.55 | 5.40 | 6.41 |
| 35 | 1.35 | 1.67 | 2.02 | 2.42 | 2.87 | 3.40 | 4.01 | 4.73 | 5.57 |
| 40 | 1.16 | 1.47 | 1.79 | 2.14 | 2.54 | 3.00 | 3.52 | 4.13 | 4.84 |
| 45 | 0.98 | 1.27 | 1.57 | 1.88 | 2.23 | 2.63 | 3.08 | 3.60 | 4.20 |
| 50 | - | 1.09 | 1.36 | 1.64 | 1.94 | 2.29 | 2.68 | 3.13 | 3.64 |
| 55 | - | - | 1.16 | 1.41 | 1.68 | 1.98 | 2.32 | 2.70 | 3.14 |
| 60 | - | - | - | 1.19 | 1.43 | 1.69 | 1.99 | 2.32 | 2.70 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 562 | W |
| Power input | 4 286 | W |
| Current consumption | 7.34 | A |
| Mass flow | 225 | kg/h |
| C.O.P. | 2.23 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 82 | dB(A) |
| With acoustic hood | 76 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

R407F

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|-------|--------|--------|--------|--------|--------|
| 30 | - | 5 043 | 7 152 | 9 752 | 12 910 | 16 694 | 21 170 | 26 407 | 32 472 |
| 35 | - | 4 337 | 6 258 | 8 629 | 11 517 | 14 988 | 19 111 | 23 952 | 29 579 |
| 40 | - | 3 733 | 5 497 | 7 668 | 10 314 | 13 502 | 17 300 | 21 775 | 26 993 |
| 45 | - | 3 209 | 4 844 | 6 845 | 9 278 | 12 212 | 15 714 | 19 852 | 24 691 |
| 50 | - | - | 4 274 | 6 134 | 8 384 | 11 094 | 14 330 | 18 159 | 22 649 |
| 55 | - | - | - | 5 512 | 7 609 | 10 123 | 13 121 | 16 671 | 20 841 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 2 813 | 3 263 | 3 687 | 4 063 | 4 372 | 4 593 | 4 707 | 4 694 |
| 35 | - | 2 820 | 3 314 | 3 794 | 4 241 | 4 633 | 4 951 | 5 175 | 5 285 |
| 40 | - | 2 828 | 3 356 | 3 884 | 4 392 | 4 859 | 5 265 | 5 591 | 5 815 |
| 45 | - | 2 850 | 3 405 | 3 972 | 4 533 | 5 066 | 5 551 | 5 969 | 6 300 |
| 50 | - | - | 3 477 | 4 075 | 4 679 | 5 270 | 5 826 | 6 328 | 6 756 |
| 55 | - | - | - | 4 209 | 4 848 | 5 487 | 6 105 | 6 682 | 7 199 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|-------|-------|
| 30 | - | 5.73 | 6.17 | 6.63 | 7.07 | 7.46 | 7.75 | 7.92 | 7.92 |
| 35 | - | 5.84 | 6.29 | 6.77 | 7.26 | 7.71 | 8.08 | 8.34 | 8.45 |
| 40 | - | 5.88 | 6.35 | 6.87 | 7.41 | 7.92 | 8.38 | 8.75 | 8.98 |
| 45 | - | 5.88 | 6.37 | 6.94 | 7.54 | 8.14 | 8.69 | 9.17 | 9.52 |
| 50 | - | - | 6.40 | 7.02 | 7.69 | 8.37 | 9.03 | 9.62 | 10.11 |
| 55 | - | - | - | 7.12 | 7.87 | 8.65 | 9.42 | 10.14 | 10.78 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 104 | 146 | 196 | 255 | 325 | 407 | 502 | 611 |
| 35 | - | 94 | 133 | 181 | 238 | 305 | 384 | 475 | 580 |
| 40 | - | 85 | 123 | 169 | 224 | 289 | 365 | 453 | 554 |
| 45 | - | 77 | 114 | 159 | 212 | 275 | 349 | 434 | 533 |
| 50 | - | - | 107 | 151 | 203 | 264 | 336 | 420 | 516 |
| 55 | - | - | - | 145 | 196 | 257 | 327 | 409 | 503 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.79 | 2.19 | 2.65 | 3.18 | 3.82 | 4.61 | 5.61 | 6.92 |
| 35 | - | 1.54 | 1.89 | 2.27 | 2.72 | 3.24 | 3.86 | 4.63 | 5.60 |
| 40 | - | 1.32 | 1.64 | 1.97 | 2.35 | 2.78 | 3.29 | 3.89 | 4.64 |
| 45 | - | 1.13 | 1.42 | 1.72 | 2.05 | 2.41 | 2.83 | 3.33 | 3.92 |
| 50 | - | - | 1.23 | 1.51 | 1.79 | 2.11 | 2.46 | 2.87 | 3.35 |
| 55 | - | - | - | 1.31 | 1.57 | 1.84 | 2.15 | 2.49 | 2.90 |
| 60 | - | - | - | - | - | - | - | - | - |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 278 | W |
| Power input | 4 533 | W |
| Current consumption | 7.54 | A |
| Mass flow | 212 | kg/h |
| C.O.P. | 2.05 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 82 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

R407F

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 30 | - | 5 405 | 7 657 | 10 431 | 13 795 | 17 822 | 22 581 | 28 143 | 34 577 |
| 35 | - | 4 670 | 6 731 | 9 271 | 12 360 | 16 069 | 20 469 | 25 630 | 31 623 |
| 40 | - | 4 042 | 5 944 | 8 281 | 11 125 | 14 547 | 18 618 | 23 410 | 28 992 |
| 45 | - | 3 497 | 5 270 | 7 436 | 10 067 | 13 234 | 17 008 | 21 461 | 26 664 |
| 50 | - | - | 4 686 | 6 713 | 9 163 | 12 106 | 15 616 | 19 763 | 24 619 |
| 55 | - | - | - | 6 089 | 8 391 | 11 144 | 14 423 | 18 298 | 22 842 |
| 60 | - | - | - | - | - | - | - | - | - |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | - | 2 813 | 3 263 | 3 687 | 4 063 | 4 372 | 4 593 | 4 707 | 4 694 |
| 35 | - | 2 820 | 3 314 | 3 794 | 4 241 | 4 633 | 4 951 | 5 175 | 5 285 |
| 40 | - | 2 828 | 3 356 | 3 884 | 4 392 | 4 859 | 5 265 | 5 591 | 5 815 |
| 45 | - | 2 850 | 3 405 | 3 972 | 4 533 | 5 066 | 5 551 | 5 969 | 6 300 |
| 50 | - | - | 3 477 | 4 075 | 4 679 | 5 270 | 5 826 | 6 328 | 6 756 |
| 55 | - | - | - | 4 209 | 4 848 | 5 487 | 6 105 | 6 682 | 7 199 |
| 60 | - | - | - | - | - | - | - | - | - |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|-------|-------|
| 30 | - | 5.73 | 6.17 | 6.63 | 7.07 | 7.46 | 7.75 | 7.92 | 7.92 |
| 35 | - | 5.84 | 6.29 | 6.77 | 7.26 | 7.71 | 8.08 | 8.34 | 8.45 |
| 40 | - | 5.88 | 6.35 | 6.87 | 7.41 | 7.92 | 8.38 | 8.75 | 8.98 |
| 45 | - | 5.88 | 6.37 | 6.94 | 7.54 | 8.14 | 8.69 | 9.17 | 9.52 |
| 50 | - | - | 6.40 | 7.02 | 7.69 | 8.37 | 9.03 | 9.62 | 10.11 |
| 55 | - | - | - | 7.12 | 7.87 | 8.65 | 9.42 | 10.14 | 10.78 |
| 60 | - | - | - | - | - | - | - | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | - | 104 | 145 | 194 | 254 | 323 | 405 | 499 | 607 |
| 35 | - | 93 | 133 | 180 | 237 | 304 | 382 | 472 | 577 |
| 40 | - | 85 | 122 | 168 | 223 | 287 | 362 | 450 | 551 |
| 45 | - | 77 | 114 | 158 | 211 | 273 | 347 | 432 | 529 |
| 50 | - | - | 107 | 150 | 202 | 263 | 334 | 417 | 513 |
| 55 | - | - | - | 144 | 195 | 255 | 325 | 407 | 500 |
| 60 | - | - | - | - | - | - | - | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 30 | - | 1.92 | 2.35 | 2.83 | 3.40 | 4.08 | 4.92 | 5.98 | 7.37 |
| 35 | - | 1.66 | 2.03 | 2.44 | 2.91 | 3.47 | 4.13 | 4.95 | 5.98 |
| 40 | - | 1.43 | 1.77 | 2.13 | 2.53 | 2.99 | 3.54 | 4.19 | 4.99 |
| 45 | - | 1.23 | 1.55 | 1.87 | 2.22 | 2.61 | 3.06 | 3.60 | 4.23 |
| 50 | - | - | 1.35 | 1.65 | 1.96 | 2.30 | 2.68 | 3.12 | 3.64 |
| 55 | - | - | - | 1.45 | 1.73 | 2.03 | 2.36 | 2.74 | 3.17 |
| 60 | - | - | - | - | - | - | - | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 067 | W |
| Power input | 4 533 | W |
| Current consumption | 7.54 | A |
| Mass flow | 211 | kg/h |
| C.O.P. | 2.22 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 82 | dB(A) |
| With acoustic hood | 76 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 35 | 2 197 | 3 216 | 6 166 | 8 209 | 10 708 | 13 718 | 17 296 | 21 499 | 26 382 |
| 40 | 1 879 | 2 834 | 5 590 | 7 503 | 9 848 | 12 683 | 16 063 | 20 045 | 24 686 |
| 45 | 1 577 | 2 469 | 5 031 | 6 813 | 9 006 | 11 665 | 14 848 | 18 610 | 23 009 |
| 50 | 1 292 | 2 121 | 4 489 | 6 142 | 8 182 | 10 666 | 13 651 | 17 194 | 21 350 |
| 55 | - | - | 3 967 | 5 489 | 7 377 | 9 686 | 12 474 | 15 798 | 19 712 |
| 60 | - | - | - | 4 856 | 6 591 | 8 727 | 11 318 | 14 422 | 18 095 |
| 65 | - | - | - | - | 5 827 | 7 787 | 10 182 | 13 067 | 16 499 |
| 75 | - | - | - | - | - | - | 7 976 | 10 424 | 13 374 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 540 | 1 890 | 2 481 | 2 721 | 2 921 | 3 081 | 3 200 | 3 276 | 3 309 |
| 40 | 1 490 | 1 877 | 2 545 | 2 823 | 3 063 | 3 263 | 3 422 | 3 539 | 3 613 |
| 45 | 1 418 | 1 846 | 2 599 | 2 920 | 3 203 | 3 447 | 3 650 | 3 811 | 3 929 |
| 50 | 1 321 | 1 795 | 2 639 | 3 006 | 3 336 | 3 627 | 3 878 | 4 088 | 4 255 |
| 55 | - | - | 2 662 | 3 080 | 3 460 | 3 802 | 4 105 | 4 366 | 4 585 |
| 60 | - | - | - | 3 135 | 3 571 | 3 967 | 4 325 | 4 642 | 4 918 |
| 65 | - | - | - | - | 3 664 | 4 119 | 4 536 | 4 913 | 5 248 |
| 75 | - | - | - | - | - | - | 4 915 | 5 421 | 5 888 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.63 | 5.68 | 5.90 | 6.06 | 6.23 | 6.40 | 6.57 | 6.72 | 6.83 |
| 40 | 5.54 | 5.63 | 5.93 | 6.11 | 6.31 | 6.50 | 6.68 | 6.83 | 6.94 |
| 45 | 5.41 | 5.56 | 5.96 | 6.19 | 6.42 | 6.64 | 6.84 | 7.01 | 7.14 |
| 50 | 5.23 | 5.45 | 5.98 | 6.26 | 6.54 | 6.81 | 7.05 | 7.26 | 7.41 |
| 55 | - | - | 5.97 | 6.33 | 6.67 | 7.00 | 7.29 | 7.54 | 7.74 |
| 60 | - | - | - | 6.36 | 6.79 | 7.18 | 7.54 | 7.86 | 8.11 |
| 65 | - | - | - | - | 6.88 | 7.36 | 7.80 | 8.18 | 8.51 |
| 75 | - | - | - | - | - | - | 8.25 | 8.83 | 9.33 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 56 | 80 | 147 | 191 | 244 | 306 | 378 | 463 | 560 |
| 40 | 50 | 75 | 140 | 183 | 235 | 297 | 368 | 452 | 547 |
| 45 | 45 | 69 | 133 | 176 | 227 | 287 | 358 | 440 | 535 |
| 50 | 39 | 63 | 126 | 167 | 218 | 277 | 347 | 429 | 522 |
| 55 | - | - | 118 | 159 | 209 | 267 | 336 | 417 | 509 |
| 60 | - | - | - | 151 | 199 | 257 | 325 | 404 | 496 |
| 65 | - | - | - | - | 190 | 246 | 313 | 392 | 482 |
| 75 | - | - | - | - | - | - | 289 | 365 | 453 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.43 | 1.70 | 2.49 | 3.02 | 3.67 | 4.45 | 5.40 | 6.56 | 7.97 |
| 40 | 1.26 | 1.51 | 2.20 | 2.66 | 3.21 | 3.89 | 4.69 | 5.66 | 6.83 |
| 45 | 1.11 | 1.34 | 1.94 | 2.33 | 2.81 | 3.38 | 4.07 | 4.88 | 5.86 |
| 50 | 0.98 | 1.18 | 1.70 | 2.04 | 2.45 | 2.94 | 3.52 | 4.21 | 5.02 |
| 55 | - | - | 1.49 | 1.78 | 2.13 | 2.55 | 3.04 | 3.62 | 4.30 |
| 60 | - | - | - | 1.55 | 1.85 | 2.20 | 2.62 | 3.11 | 3.68 |
| 65 | - | - | - | - | 1.59 | 1.89 | 2.24 | 2.66 | 3.14 |
| 75 | - | - | - | - | - | - | 1.62 | 1.92 | 2.27 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 10 666 | W |
| Power input | 3 627 | W |
| Current consumption | 6.81 | A |
| Mass flow | 277 | kg/h |
| C.O.P. | 2.94 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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 60 Hz, ARI rating conditions
R134a

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 35 | 2 388 | 3 489 | 6 667 | 8 862 | 11 541 | 14 764 | 18 588 | 23 072 | 28 276 |
| 40 | 2 054 | 3 093 | 6 075 | 8 140 | 10 666 | 13 714 | 17 341 | 21 608 | 26 572 |
| 45 | 1 736 | 2 712 | 5 501 | 7 435 | 9 808 | 12 681 | 16 112 | 20 161 | 24 887 |
| 50 | - | 2 347 | 4 943 | 6 746 | 8 968 | 11 666 | 14 902 | 18 734 | 23 222 |
| 55 | - | - | 4 403 | 6 076 | 8 146 | 10 671 | 13 711 | 17 327 | 21 578 |
| 60 | - | - | - | 5 425 | 7 343 | 9 695 | 12 542 | 15 943 | 19 958 |
| 65 | - | - | - | - | - | 8 741 | 11 395 | 14 582 | 18 364 |
| 75 | - | - | - | - | - | - | 9 178 | 11 947 | 15 271 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35 | 1 540 | 1 890 | 2 481 | 2 721 | 2 921 | 3 081 | 3 200 | 3 276 | 3 309 |
| 40 | 1 490 | 1 877 | 2 545 | 2 823 | 3 063 | 3 263 | 3 422 | 3 539 | 3 613 |
| 45 | 1 418 | 1 846 | 2 599 | 2 920 | 3 203 | 3 447 | 3 650 | 3 811 | 3 929 |
| 50 | - | 1 795 | 2 639 | 3 006 | 3 336 | 3 627 | 3 878 | 4 088 | 4 255 |
| 55 | - | - | 2 662 | 3 080 | 3 460 | 3 802 | 4 105 | 4 366 | 4 585 |
| 60 | - | - | - | 3 135 | 3 571 | 3 967 | 4 325 | 4 642 | 4 918 |
| 65 | - | - | - | - | - | 4 119 | 4 536 | 4 913 | 5 248 |
| 75 | - | - | - | - | - | - | 4 915 | 5 421 | 5 888 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 5.63 | 5.68 | 5.90 | 6.06 | 6.23 | 6.40 | 6.57 | 6.72 | 6.83 |
| 40 | 5.54 | 5.63 | 5.93 | 6.11 | 6.31 | 6.50 | 6.68 | 6.83 | 6.94 |
| 45 | 5.41 | 5.56 | 5.96 | 6.19 | 6.42 | 6.64 | 6.84 | 7.01 | 7.14 |
| 50 | - | 5.45 | 5.98 | 6.26 | 6.54 | 6.81 | 7.05 | 7.26 | 7.41 |
| 55 | - | - | 5.97 | 6.33 | 6.67 | 7.00 | 7.29 | 7.54 | 7.74 |
| 60 | - | - | - | 6.36 | 6.79 | 7.18 | 7.54 | 7.86 | 8.11 |
| 65 | - | - | - | - | - | 7.36 | 7.80 | 8.18 | 8.51 |
| 75 | - | - | - | - | - | - | 8.25 | 8.83 | 9.33 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 35 | 55 | 80 | 146 | 190 | 242 | 304 | 376 | 460 | 556 |
| 40 | 50 | 74 | 139 | 182 | 234 | 295 | 366 | 449 | 544 |
| 45 | 45 | 68 | 132 | 175 | 225 | 286 | 356 | 438 | 532 |
| 50 | - | 62 | 125 | 167 | 217 | 276 | 345 | 426 | 519 |
| 55 | - | - | 117 | 158 | 208 | 266 | 334 | 414 | 506 |
| 60 | - | - | - | 150 | 198 | 256 | 323 | 402 | 493 |
| 65 | - | - | - | - | - | 245 | 312 | 389 | 479 |
| 75 | - | - | - | - | - | - | 288 | 363 | 451 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 35 | 1.55 | 1.85 | 2.69 | 3.26 | 3.95 | 4.79 | 5.81 | 7.04 | 8.55 |
| 40 | 1.38 | 1.65 | 2.39 | 2.88 | 3.48 | 4.20 | 5.07 | 6.11 | 7.36 |
| 45 | 1.22 | 1.47 | 2.12 | 2.55 | 3.06 | 3.68 | 4.41 | 5.29 | 6.33 |
| 50 | - | 1.31 | 1.87 | 2.24 | 2.69 | 3.22 | 3.84 | 4.58 | 5.46 |
| 55 | - | - | 1.65 | 1.97 | 2.35 | 2.81 | 3.34 | 3.97 | 4.71 |
| 60 | - | - | - | 1.73 | 2.06 | 2.44 | 2.90 | 3.43 | 4.06 |
| 65 | - | - | - | - | - | 2.12 | 2.51 | 2.97 | 3.50 |
| 75 | - | - | - | - | - | - | 1.87 | 2.20 | 2.59 |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 12 070 | W |
| Power input | 3 917 | W |
| Current consumption | 7.10 | A |
| Mass flow | 296 | kg/h |
| C.O.P. | 3.08 | |

Pressure switch settings

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

Sound power data

| | | |
|---------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With 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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Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 60 Hz, EN 12900 rating conditions
R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|---|---|
| 35 | 7 260 | 9 715 | 12 611 | 16 000 | 19 940 | 24 487 | 29 695 | - | - |
| 40 | 6 687 | 9 044 | 11 807 | 15 031 | 18 773 | 23 086 | 28 027 | - | - |
| 45 | 6 081 | 8 326 | 10 943 | 13 989 | 17 518 | 21 585 | 26 246 | - | - |
| 50 | - | 7 576 | 10 035 | 12 889 | 16 192 | 19 999 | 24 366 | - | - |
| 55 | - | - | 9 097 | 11 745 | 14 809 | 18 343 | 22 401 | - | - |
| 60 | - | - | - | 10 572 | 13 383 | 16 629 | 20 366 | - | - |
| 65 | - | - | - | 9 382 | 11 926 | 14 872 | 18 272 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 396 | 3 737 | 4 031 | 4 294 | 4 543 | 4 792 | 5 057 | - | - |
| 40 | 3 541 | 3 951 | 4 303 | 4 614 | 4 899 | 5 173 | 5 453 | - | - |
| 45 | 3 644 | 4 136 | 4 560 | 4 931 | 5 266 | 5 579 | 5 887 | - | - |
| 50 | - | 4 283 | 4 791 | 5 237 | 5 634 | 6 000 | 6 349 | - | - |
| 55 | - | - | 4 987 | 5 520 | 5 994 | 6 424 | 6 828 | - | - |
| 60 | - | - | - | 5 771 | 6 335 | 6 844 | 7 316 | - | - |
| 65 | - | - | - | 5 982 | 6 648 | 7 249 | 7 802 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 5.85 | 6.15 | 6.41 | 6.63 | 6.83 | 7.03 | 7.24 | - | - |
| 40 | 6.02 | 6.43 | 6.78 | 7.09 | 7.37 | 7.64 | 7.92 | - | - |
| 45 | 6.13 | 6.65 | 7.11 | 7.51 | 7.89 | 8.24 | 8.58 | - | - |
| 50 | - | 6.82 | 7.39 | 7.90 | 8.37 | 8.81 | 9.24 | - | - |
| 55 | - | - | 7.62 | 8.25 | 8.82 | 9.36 | 9.88 | - | - |
| 60 | - | - | - | 8.55 | 9.24 | 9.88 | 10.49 | - | - |
| 65 | - | - | - | 8.80 | 9.61 | 10.37 | 11.09 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 157 | 207 | 265 | 330 | 406 | 491 | 588 | - | - |
| 40 | 152 | 203 | 260 | 326 | 400 | 485 | 581 | - | - |
| 45 | 146 | 197 | 254 | 319 | 393 | 477 | 572 | - | - |
| 50 | - | 190 | 247 | 311 | 384 | 467 | 560 | - | - |
| 55 | - | - | 238 | 301 | 373 | 454 | 545 | - | - |
| 60 | - | - | - | 291 | 361 | 440 | 529 | - | - |
| 65 | - | - | - | 279 | 347 | 424 | 511 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.14 | 2.60 | 3.13 | 3.73 | 4.39 | 5.11 | 5.87 | - | - |
| 40 | 1.89 | 2.29 | 2.74 | 3.26 | 3.83 | 4.46 | 5.14 | - | - |
| 45 | 1.67 | 2.01 | 2.40 | 2.84 | 3.33 | 3.87 | 4.46 | - | - |
| 50 | - | 1.77 | 2.09 | 2.46 | 2.87 | 3.33 | 3.84 | - | - |
| 55 | - | - | 1.82 | 2.13 | 2.47 | 2.86 | 3.28 | - | - |
| 60 | - | - | - | 1.83 | 2.11 | 2.43 | 2.78 | - | - |
| 65 | - | - | - | 1.57 | 1.79 | 2.05 | 2.34 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 16 192 | W |
| Power input | 5 634 | W |
| Current consumption | 8.37 | A |
| Mass flow | 384 | kg/h |
| C.O.P. | 2.87 | |

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 80 | 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

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

R407C

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 7 814 | 10 444 | 13 541 | 17 161 | 21 364 | 26 207 | 31 749 | - | - |
| 40 | 7 237 | 9 774 | 12 744 | 16 203 | 20 212 | 24 827 | 30 108 | - | - |
| 45 | 6 623 | 9 054 | 11 883 | 15 168 | 18 969 | 23 343 | 28 349 | - | - |
| 50 | - | 8 299 | 10 974 | 14 072 | 17 651 | 21 770 | 26 487 | - | - |
| 55 | - | - | 10 033 | 12 930 | 16 275 | 20 125 | 24 540 | - | - |
| 60 | - | - | - | 11 759 | 14 855 | 18 423 | 22 522 | - | - |
| 65 | - | - | - | 10 573 | 13 407 | 16 679 | 20 449 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 3 396 | 3 737 | 4 031 | 4 294 | 4 543 | 4 792 | 5 057 | - | - |
| 40 | 3 541 | 3 951 | 4 303 | 4 614 | 4 899 | 5 173 | 5 453 | - | - |
| 45 | 3 644 | 4 136 | 4 560 | 4 931 | 5 266 | 5 579 | 5 887 | - | - |
| 50 | - | 4 283 | 4 791 | 5 237 | 5 634 | 6 000 | 6 349 | - | - |
| 55 | - | - | 4 987 | 5 520 | 5 994 | 6 424 | 6 828 | - | - |
| 60 | - | - | - | 5 771 | 6 335 | 6 844 | 7 316 | - | - |
| 65 | - | - | - | 5 982 | 6 648 | 7 249 | 7 802 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|-------|-------|---|---|
| 35 | 5.85 | 6.15 | 6.41 | 6.63 | 6.83 | 7.03 | 7.24 | - | - |
| 40 | 6.02 | 6.43 | 6.78 | 7.09 | 7.37 | 7.64 | 7.92 | - | - |
| 45 | 6.13 | 6.65 | 7.11 | 7.51 | 7.89 | 8.24 | 8.58 | - | - |
| 50 | - | 6.82 | 7.39 | 7.90 | 8.37 | 8.81 | 9.24 | - | - |
| 55 | - | - | 7.62 | 8.25 | 8.82 | 9.36 | 9.88 | - | - |
| 60 | - | - | - | 8.55 | 9.24 | 9.88 | 10.49 | - | - |
| 65 | - | - | - | 8.80 | 9.61 | 10.37 | 11.09 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 157 | 206 | 263 | 329 | 403 | 488 | 584 | - | - |
| 40 | 152 | 202 | 259 | 324 | 398 | 482 | 578 | - | - |
| 45 | 146 | 196 | 253 | 317 | 391 | 474 | 568 | - | - |
| 50 | - | 189 | 245 | 309 | 382 | 464 | 556 | - | - |
| 55 | - | - | 237 | 300 | 371 | 452 | 542 | - | - |
| 60 | - | - | - | 289 | 359 | 437 | 526 | - | - |
| 65 | - | - | - | 277 | 345 | 422 | 508 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.30 | 2.80 | 3.36 | 4.00 | 4.70 | 5.47 | 6.28 | - | - |
| 40 | 2.04 | 2.47 | 2.96 | 3.51 | 4.13 | 4.80 | 5.52 | - | - |
| 45 | 1.82 | 2.19 | 2.61 | 3.08 | 3.60 | 4.18 | 4.82 | - | - |
| 50 | - | 1.94 | 2.29 | 2.69 | 3.13 | 3.63 | 4.17 | - | - |
| 55 | - | - | 2.01 | 2.34 | 2.72 | 3.13 | 3.59 | - | - |
| 60 | - | - | - | 2.04 | 2.34 | 2.69 | 3.08 | - | - |
| 65 | - | - | - | 1.77 | 2.02 | 2.30 | 2.62 | - | - |

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

| | | |
|---------------------|--------|------|
| Cooling capacity | 18 085 | W |
| Power input | 6 141 | W |
| Current consumption | 9.01 | A |
| Mass flow | 407 | kg/h |
| C.O.P. | 2.94 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 86 | dB(A) |
| With acoustic hood | 80 | dB(A) |

Tolerance according EN12900

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-4
Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R448A

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | - | 7 225 | 9 572 | 12 427 | 15 840 | - | - | - | - |
| 20 | - | 6 078 | 8 198 | 10 775 | 13 856 | 17 492 | 21 735 | - | - |
| 30 | - | 4 975 | 6 859 | 9 150 | 11 892 | 15 132 | 18 919 | 23 311 | 28 372 |
| 40 | - | - | 5 573 | 7 569 | 9 963 | 12 800 | 16 125 | 19 987 | 24 445 |
| 50 | - | - | - | 6 047 | 8 087 | 10 514 | 13 369 | 16 697 | 20 544 |
| 60 | - | - | - | - | 6 279 | 8 290 | 10 670 | 13 457 | 16 689 |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | - | 2 364 | 2 555 | 2 676 | 2 714 | - | - | - | - |
| 20 | - | 2 582 | 2 871 | 3 104 | 3 268 | 3 351 | 3 341 | - | - |
| 30 | - | 2 723 | 3 112 | 3 459 | 3 750 | 3 975 | 4 119 | 4 173 | 4 123 |
| 40 | - | - | 3 282 | 3 744 | 4 164 | 4 531 | 4 832 | 5 056 | 5 190 |
| 50 | - | - | - | 3 962 | 4 513 | 5 024 | 5 484 | 5 879 | 6 199 |
| 60 | - | - | - | - | 4 801 | 5 458 | 6 077 | 6 646 | 7 153 |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|-------|-------|
| 10 | - | 8.27 | 8.44 | 8.48 | 8.36 | - | - | - | - |
| 20 | - | 6.67 | 6.97 | 7.19 | 7.31 | 7.30 | 7.11 | - | - |
| 30 | - | 5.94 | 6.32 | 6.69 | 7.00 | 7.23 | 7.34 | 7.30 | 7.08 |
| 40 | - | - | 6.26 | 6.71 | 7.17 | 7.60 | 7.96 | 8.23 | 8.36 |
| 50 | - | - | - | 7.01 | 7.56 | 8.14 | 8.71 | 9.23 | 9.67 |
| 60 | - | - | - | - | 7.92 | 8.60 | 9.33 | 10.06 | 10.77 |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | - | 118 | 157 | 204 | 261 | - | - | - | - |
| 20 | - | 107 | 145 | 191 | 246 | 313 | 392 | - | - |
| 30 | - | 95 | 131 | 176 | 230 | 294 | 371 | 463 | 571 |
| 40 | - | - | 117 | 159 | 211 | 273 | 348 | 436 | 542 |
| 50 | - | - | - | 141 | 191 | 250 | 322 | 407 | 509 |
| 60 | - | - | - | - | 169 | 226 | 294 | 376 | 474 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 10 | - | 3.06 | 3.75 | 4.64 | 5.84 | - | - | - | - |
| 20 | - | 2.35 | 2.86 | 3.47 | 4.24 | 5.22 | 6.51 | - | - |
| 30 | - | 1.83 | 2.20 | 2.65 | 3.17 | 3.81 | 4.59 | 5.59 | 6.88 |
| 40 | - | - | 1.70 | 2.02 | 2.39 | 2.83 | 3.34 | 3.95 | 4.71 |
| 50 | - | - | - | 1.53 | 1.79 | 2.09 | 2.44 | 2.84 | 3.31 |
| 60 | - | - | - | - | 1.31 | 1.52 | 1.76 | 2.02 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 017 | W |
| Power input | 4 346 | W |
| Current consumption | 7.35 | A |
| Mass flow | 201 | kg/h |
| C.O.P. | 2.07 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

R448A

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | 5 362 | 7 261 | 9 626 | 12 504 | 15 942 | - | - | - | - |
| 20 | 4 332 | 6 039 | 8 164 | 10 752 | 13 853 | 17 512 | 21 776 | - | - |
| 30 | 3 369 | 4 875 | 6 749 | 9 040 | 11 793 | 15 055 | 18 875 | 23 298 | 28 372 |
| 40 | 2 490 | 3 785 | 5 401 | 7 383 | 9 779 | 12 637 | 16 002 | 19 922 | 24 445 |
| 50 | - | 2 789 | 4 136 | 5 801 | 7 831 | 10 273 | 13 175 | 16 583 | 20 544 |
| 60 | - | - | 2 973 | 4 311 | 5 965 | 7 983 | 10 411 | 13 298 | 16 689 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 2 114 | 2 364 | 2 555 | 2 676 | 2 714 | - | - | - | - |
| 20 | 2 248 | 2 582 | 2 871 | 3 104 | 3 268 | 3 351 | 3 341 | - | - |
| 30 | 2 303 | 2 723 | 3 112 | 3 459 | 3 750 | 3 975 | 4 119 | 4 173 | 4 123 |
| 40 | 2 285 | 2 792 | 3 282 | 3 744 | 4 164 | 4 531 | 4 832 | 5 056 | 5 190 |
| 50 | - | 2 792 | 3 385 | 3 962 | 4 513 | 5 024 | 5 484 | 5 879 | 6 199 |
| 60 | - | - | 3 424 | 4 119 | 4 801 | 5 458 | 6 077 | 6 646 | 7 153 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 10 | 8.01 | 8.27 | 8.44 | 8.48 | 8.36 | - | - | - | - |
| 20 | 6.33 | 6.67 | 6.97 | 7.19 | 7.31 | 7.30 | 7.11 | - | - |
| 30 | 5.57 | 5.94 | 6.32 | 6.69 | 7.00 | 7.23 | 7.34 | 7.30 | 7.08 |
| 40 | 5.48 | 5.84 | 6.26 | 6.71 | 7.17 | 7.60 | 7.96 | 8.23 | 8.36 |
| 50 | - | 6.10 | 6.51 | 7.01 | 7.56 | 8.14 | 8.71 | 9.23 | 9.67 |
| 60 | - | - | 6.82 | 7.32 | 7.92 | 8.60 | 9.33 | 10.06 | 10.77 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 103 | 138 | 179 | 229 | 287 | - | - | - | - |
| 20 | 90 | 124 | 165 | 214 | 271 | 336 | 412 | - | - |
| 30 | 77 | 110 | 150 | 197 | 252 | 316 | 390 | 475 | 571 |
| 40 | 64 | 95 | 133 | 178 | 231 | 294 | 366 | 448 | 542 |
| 50 | - | 80 | 115 | 158 | 209 | 269 | 339 | 418 | 509 |
| 60 | - | - | 97 | 138 | 186 | 243 | 309 | 386 | 474 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.54 | 3.07 | 3.77 | 4.67 | 5.87 | - | - | - | - |
| 20 | 1.93 | 2.34 | 2.84 | 3.46 | 4.24 | 5.23 | 6.52 | - | - |
| 30 | 1.46 | 1.79 | 2.17 | 2.61 | 3.14 | 3.79 | 4.58 | 5.58 | 6.88 |
| 40 | 1.09 | 1.36 | 1.65 | 1.97 | 2.35 | 2.79 | 3.31 | 3.94 | 4.71 |
| 50 | - | 1.00 | 1.22 | 1.46 | 1.74 | 2.04 | 2.40 | 2.82 | 3.31 |
| 60 | - | - | 0.87 | 1.05 | 1.24 | 1.46 | 1.71 | 2.00 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 796 | W |
| Power input | 4 346 | W |
| Current consumption | 7.35 | A |
| Mass flow | 221 | kg/h |
| C.O.P. | 2.02 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | - | 7 239 | 9 587 | 12 442 | 15 855 | - | - | - | - |
| 20 | - | 6 092 | 8 213 | 10 790 | 13 871 | 17 506 | 21 747 | - | - |
| 30 | - | 4 988 | 6 874 | 9 166 | 11 908 | 15 146 | 18 931 | 23 318 | 28 372 |
| 40 | - | - | 5 587 | 7 585 | 9 980 | 12 815 | 16 137 | 19 995 | 24 445 |
| 50 | - | - | - | 6 063 | 8 103 | 10 529 | 13 382 | 16 704 | 20 544 |
| 60 | - | - | - | - | 6 295 | 8 305 | 10 682 | 13 464 | 16 689 |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | - | 2 364 | 2 555 | 2 676 | 2 714 | - | - | - | - |
| 20 | - | 2 582 | 2 871 | 3 104 | 3 268 | 3 351 | 3 341 | - | - |
| 30 | - | 2 723 | 3 112 | 3 459 | 3 750 | 3 975 | 4 119 | 4 173 | 4 123 |
| 40 | - | - | 3 282 | 3 744 | 4 164 | 4 531 | 4 832 | 5 056 | 5 190 |
| 50 | - | - | - | 3 962 | 4 513 | 5 024 | 5 484 | 5 879 | 6 199 |
| 60 | - | - | - | - | 4 801 | 5 458 | 6 077 | 6 646 | 7 153 |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|-------|-------|
| 10 | - | 8.27 | 8.44 | 8.48 | 8.36 | - | - | - | - |
| 20 | - | 6.67 | 6.97 | 7.19 | 7.31 | 7.30 | 7.11 | - | - |
| 30 | - | 5.94 | 6.32 | 6.69 | 7.00 | 7.23 | 7.34 | 7.30 | 7.08 |
| 40 | - | - | 6.26 | 6.71 | 7.17 | 7.60 | 7.96 | 8.23 | 8.36 |
| 50 | - | - | - | 7.01 | 7.56 | 8.14 | 8.71 | 9.23 | 9.67 |
| 60 | - | - | - | - | 7.92 | 8.60 | 9.33 | 10.06 | 10.77 |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | - | 118 | 159 | 209 | 268 | - | - | - | - |
| 20 | - | 107 | 147 | 195 | 252 | 320 | 401 | - | - |
| 30 | - | 96 | 134 | 179 | 234 | 300 | 379 | 471 | 581 |
| 40 | - | - | 119 | 163 | 215 | 279 | 355 | 445 | 552 |
| 50 | - | - | - | 145 | 195 | 256 | 329 | 416 | 520 |
| 60 | - | - | - | - | 173 | 231 | 301 | 385 | 486 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 10 | - | 3.06 | 3.75 | 4.65 | 5.84 | - | - | - | - |
| 20 | - | 2.36 | 2.86 | 3.48 | 4.24 | 5.22 | 6.51 | - | - |
| 30 | - | 1.83 | 2.21 | 2.65 | 3.18 | 3.81 | 4.60 | 5.59 | 6.88 |
| 40 | - | - | 1.70 | 2.03 | 2.40 | 2.83 | 3.34 | 3.95 | 4.71 |
| 50 | - | - | - | 1.53 | 1.80 | 2.10 | 2.44 | 2.84 | 3.31 |
| 60 | - | - | - | - | 1.31 | 1.52 | 1.76 | 2.03 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 034 | W |
| Power input | 4 346 | W |
| Current consumption | 7.35 | A |
| Mass flow | 205 | kg/h |
| C.O.P. | 2.08 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10 | 5 362 | 7 261 | 9 626 | 12 504 | 15 942 | - | - | - | - |
| 20 | 4 332 | 6 039 | 8 164 | 10 752 | 13 853 | 17 512 | 21 776 | - | - |
| 30 | 3 369 | 4 875 | 6 749 | 9 040 | 11 793 | 15 055 | 18 875 | 23 298 | 28 372 |
| 40 | 2 490 | 3 785 | 5 401 | 7 383 | 9 779 | 12 637 | 16 002 | 19 922 | 24 445 |
| 50 | - | 2 789 | 4 136 | 5 801 | 7 831 | 10 273 | 13 175 | 16 583 | 20 544 |
| 60 | - | - | 2 973 | 4 311 | 5 965 | 7 983 | 10 411 | 13 298 | 16 689 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 2 114 | 2 364 | 2 555 | 2 676 | 2 714 | - | - | - | - |
| 20 | 2 248 | 2 582 | 2 871 | 3 104 | 3 268 | 3 351 | 3 341 | - | - |
| 30 | 2 303 | 2 723 | 3 112 | 3 459 | 3 750 | 3 975 | 4 119 | 4 173 | 4 123 |
| 40 | 2 285 | 2 792 | 3 282 | 3 744 | 4 164 | 4 531 | 4 832 | 5 056 | 5 190 |
| 50 | - | 2 792 | 3 385 | 3 962 | 4 513 | 5 024 | 5 484 | 5 879 | 6 199 |
| 60 | - | - | 3 424 | 4 119 | 4 801 | 5 458 | 6 077 | 6 646 | 7 153 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|-------|-------|
| 10 | 8.01 | 8.27 | 8.44 | 8.48 | 8.36 | - | - | - | - |
| 20 | 6.33 | 6.67 | 6.97 | 7.19 | 7.31 | 7.30 | 7.11 | - | - |
| 30 | 5.57 | 5.94 | 6.32 | 6.69 | 7.00 | 7.23 | 7.34 | 7.30 | 7.08 |
| 40 | 5.48 | 5.84 | 6.26 | 6.71 | 7.17 | 7.60 | 7.96 | 8.23 | 8.36 |
| 50 | - | 6.10 | 6.51 | 7.01 | 7.56 | 8.14 | 8.71 | 9.23 | 9.67 |
| 60 | - | - | 6.82 | 7.32 | 7.92 | 8.60 | 9.33 | 10.06 | 10.77 |

Mass flow in kg/h

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 99 | 137 | 182 | 234 | 294 | - | - | - | - |
| 20 | 89 | 125 | 168 | 218 | 277 | 344 | 421 | - | - |
| 30 | 77 | 111 | 152 | 201 | 257 | 323 | 398 | 484 | 581 |
| 40 | 65 | 97 | 136 | 182 | 236 | 300 | 373 | 457 | 552 |
| 50 | - | 82 | 118 | 162 | 214 | 275 | 346 | 427 | 520 |
| 60 | - | - | 100 | 141 | 190 | 249 | 317 | 396 | 486 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.54 | 3.07 | 3.77 | 4.67 | 5.87 | - | - | - | - |
| 20 | 1.93 | 2.34 | 2.84 | 3.46 | 4.24 | 5.23 | 6.52 | - | - |
| 30 | 1.46 | 1.79 | 2.17 | 2.61 | 3.14 | 3.79 | 4.58 | 5.58 | 6.88 |
| 40 | 1.09 | 1.36 | 1.65 | 1.97 | 2.35 | 2.79 | 3.31 | 3.94 | 4.71 |
| 50 | - | 1.00 | 1.22 | 1.46 | 1.74 | 2.04 | 2.40 | 2.82 | 3.31 |
| 60 | - | - | 0.87 | 1.05 | 1.24 | 1.46 | 1.71 | 2.00 | 2.33 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 8 796 | W |
| Power input | 4 346 | W |
| Current consumption | 7.35 | A |
| Mass flow | 225 | kg/h |
| C.O.P. | 2.02 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

| | | | | | | | | | |
|----|---|-------|--------|--------|--------|--------|--------|--------|--------|
| 10 | - | 8 494 | 10 887 | 13 779 | 17 215 | - | - | - | - |
| 20 | - | 7 263 | 9 463 | 12 103 | 15 223 | 18 869 | 23 090 | - | - |
| 30 | - | 6 041 | 8 025 | 10 387 | 13 167 | 16 407 | 20 151 | 24 449 | 29 360 |
| 40 | - | 4 832 | 6 576 | 8 637 | 11 054 | 13 864 | 17 108 | 20 828 | 25 073 |
| 50 | - | - | 5 122 | 6 858 | 8 888 | 11 247 | 13 969 | 17 089 | 20 647 |
| 60 | - | - | - | 5 058 | 6 681 | 8 567 | 10 746 | 13 245 | 16 089 |

Power input in W

| | | | | | | | | | |
|----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | - | 3 168 | 3 475 | 3 764 | 4 043 | - | - | - | - |
| 20 | - | 3 145 | 3 477 | 3 778 | 4 055 | 4 317 | 4 573 | - | - |
| 30 | - | 3 182 | 3 579 | 3 931 | 4 246 | 4 532 | 4 799 | 5 054 | 5 306 |
| 40 | - | 3 234 | 3 737 | 4 180 | 4 572 | 4 922 | 5 239 | 5 531 | 5 807 |
| 50 | - | - | 3 905 | 4 479 | 4 989 | 5 443 | 5 851 | 6 219 | 6 558 |
| 60 | - | - | - | 4 785 | 5 453 | 6 051 | 6 589 | 7 074 | 7 516 |

Current consumption in A

| | | | | | | | | | |
|----|---|------|------|------|-------|------|------|-------|-------|
| 10 | - | 9.07 | 9.54 | 9.95 | 10.31 | - | - | - | - |
| 20 | - | 7.09 | 7.54 | 7.94 | 8.29 | 8.62 | 8.93 | - | - |
| 30 | - | 6.26 | 6.73 | 7.14 | 7.53 | 7.88 | 8.23 | 8.58 | 8.94 |
| 40 | - | 6.17 | 6.68 | 7.15 | 7.59 | 8.01 | 8.43 | 8.85 | 9.29 |
| 50 | - | - | 6.98 | 7.53 | 8.06 | 8.58 | 9.10 | 9.63 | 10.19 |
| 60 | - | - | - | 7.88 | 8.53 | 9.17 | 9.83 | 10.50 | 11.20 |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | - | 172 | 222 | 283 | 355 | - | - | - | - |
| 20 | - | 160 | 210 | 270 | 342 | 427 | 527 | - | - |
| 30 | - | 147 | 196 | 255 | 325 | 408 | 506 | 622 | 760 |
| 40 | - | 130 | 179 | 236 | 304 | 385 | 481 | 594 | 728 |
| 50 | - | - | 158 | 214 | 280 | 358 | 450 | 560 | 690 |
| 60 | - | - | - | 188 | 251 | 327 | 416 | 521 | 646 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|---|------|------|------|------|------|------|------|------|
| 10 | - | 2.68 | 3.13 | 3.66 | 4.26 | - | - | - | - |
| 20 | - | 2.31 | 2.72 | 3.20 | 3.75 | 4.37 | 5.05 | - | - |
| 30 | - | 1.90 | 2.24 | 2.64 | 3.10 | 3.62 | 4.20 | 4.84 | 5.53 |
| 40 | - | 1.49 | 1.76 | 2.07 | 2.42 | 2.82 | 3.27 | 3.77 | 4.32 |
| 50 | - | - | 1.31 | 1.53 | 1.78 | 2.07 | 2.39 | 2.75 | 3.15 |
| 60 | - | - | - | 1.06 | 1.23 | 1.42 | 1.63 | 1.87 | 2.14 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 977 | W |
| Power input | 4 772 | W |
| Current consumption | 7.80 | A |
| Mass flow | 292 | kg/h |
| C.O.P. | 2.09 | |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

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

Cooling capacity in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 10 | 6 346 | 8 269 | 10 660 | 13 565 | 17 034 | - | - | - | - |
| 20 | 5 182 | 6 952 | 9 132 | 11 771 | 14 916 | 18 614 | 22 912 | - | - |
| 30 | 4 070 | 5 659 | 7 604 | 9 950 | 12 745 | 16 036 | 19 871 | 24 296 | 29 360 |
| 40 | 3 017 | 4 401 | 6 083 | 8 110 | 10 529 | 13 387 | 16 733 | 20 612 | 25 073 |
| 50 | 2 035 | 3 187 | 4 580 | 6 261 | 8 278 | 10 678 | 13 507 | 16 815 | 20 647 |
| 60 | - | 2 026 | 3 104 | 4 413 | 6 002 | 7 916 | 10 204 | 12 913 | 16 089 |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 2 833 | 3 168 | 3 475 | 3 764 | 4 043 | - | - | - | - |
| 20 | 2 772 | 3 145 | 3 477 | 3 778 | 4 055 | 4 317 | 4 573 | - | - |
| 30 | 2 731 | 3 182 | 3 579 | 3 931 | 4 246 | 4 532 | 4 799 | 5 054 | 5 306 |
| 40 | 2 665 | 3 234 | 3 737 | 4 180 | 4 572 | 4 922 | 5 239 | 5 531 | 5 807 |
| 50 | 2 529 | 3 258 | 3 905 | 4 479 | 4 989 | 5 443 | 5 851 | 6 219 | 6 558 |
| 60 | - | 3 208 | 4 040 | 4 785 | 5 453 | 6 051 | 6 589 | 7 074 | 7 516 |

Current consumption in A

| | | | | | | | | | |
|----|------|------|------|------|-------|------|------|-------|-------|
| 10 | 8.53 | 9.07 | 9.54 | 9.95 | 10.31 | - | - | - | - |
| 20 | 6.57 | 7.09 | 7.54 | 7.94 | 8.29 | 8.62 | 8.93 | - | - |
| 30 | 5.74 | 6.26 | 6.73 | 7.14 | 7.53 | 7.88 | 8.23 | 8.58 | 8.94 |
| 40 | 5.61 | 6.17 | 6.68 | 7.15 | 7.59 | 8.01 | 8.43 | 8.85 | 9.29 |
| 50 | 5.76 | 6.40 | 6.98 | 7.53 | 8.06 | 8.58 | 9.10 | 9.63 | 10.19 |
| 60 | - | 6.51 | 7.21 | 7.88 | 8.53 | 9.17 | 9.83 | 10.50 | 11.20 |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 155 | 200 | 254 | 317 | 391 | - | - | - | - |
| 20 | 141 | 187 | 241 | 303 | 376 | 460 | 555 | - | - |
| 30 | 125 | 171 | 224 | 286 | 357 | 439 | 533 | 640 | 760 |
| 40 | 107 | 152 | 204 | 265 | 335 | 415 | 506 | 610 | 728 |
| 50 | 86 | 130 | 181 | 240 | 308 | 386 | 475 | 576 | 690 |
| 60 | - | 105 | 154 | 211 | 277 | 352 | 438 | 536 | 646 |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.24 | 2.61 | 3.07 | 3.60 | 4.21 | - | - | - | - |
| 20 | 1.87 | 2.21 | 2.63 | 3.12 | 3.68 | 4.31 | 5.01 | - | - |
| 30 | 1.49 | 1.78 | 2.12 | 2.53 | 3.00 | 3.54 | 4.14 | 4.81 | 5.53 |
| 40 | 1.13 | 1.36 | 1.63 | 1.94 | 2.30 | 2.72 | 3.19 | 3.73 | 4.32 |
| 50 | 0.80 | 0.98 | 1.17 | 1.40 | 1.66 | 1.96 | 2.31 | 2.70 | 3.15 |
| 60 | - | 0.63 | 0.77 | 0.92 | 1.10 | 1.31 | 1.55 | 1.83 | 2.14 |

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

| | | |
|---------------------|-------|------|
| Cooling capacity | 9 407 | W |
| Power input | 4 772 | W |
| Current consumption | 7.80 | A |
| Mass flow | 322 | kg/h |
| C.O.P. | 1.97 | |

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

Sound power data

| | | |
|--------------------|----|-------|
| Sound power level | 83 | dB(A) |
| With acoustic hood | 77 | dB(A) |

Tolerance according EN12900

